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Colorado State Planning Commission  
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WATER RESOURCES OF COLORADO

Appendix No. 3

STREAM FLOW DATA  
OF  
COLORADO


Volume I

DENVER, COLORADO  
SEPTEMBER, 1939

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Colorado State Planning Commission

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Prepared and Published by The Colorado State  
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## PREFACE AND ACKNOWLEDGMENT

The Water Resources Survey, first sponsored in February, 1936, by the State Planning Commission and later jointly by the Commission and the Colorado Water Conservation Board, has compiled basic data which are being used to prepare a master report on the water resources of Colorado.

The work has been carried on with the aid of a Works Progress Administration Project under the direction of competent engineers and the general supervision of the Planning Commission, the Water Conservation Board and the State Engineer.

Basic data, too voluminous to be included in the master report, are published in the form of appendices as follows:

- Appendix No. 1 - Climatological Data of Colorado.
- Appendix No. 2 - Data on Stream Gaging Stations of Colorado.
- Appendix No. 3 - Stream Flow Data of Colorado.
- Appendix No. 4 - Canal Diversion Data of Colorado.
- Appendix No. 5 - Statistics of Irrigated Crops.

This appendix consists of stream flow data taken from the official records on file in the office of the State Engineer, from Water Supply Papers and records of the United States Geological Survey and from records of the Denver Board of Water Commissioners. The co-operation and assistance of each of these organizations, is appreciated and gratefully acknowledged.

Special acknowledgment is due Mr. L. T. Burgess, Chief Hydrographer of the State Engineer's office, for his assistance in reconciling differences in published records.

Colorado State Planning Commission  
Water Conservation Board  
State Engineer



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## INTRODUCTION

### HISTORICAL STATEMENT:

By M. C. Hinderlider - State Engineer

The first steps taken in Colorado to obtain definite information concerning its natural water supplies were initiated in 1881 by an Act of the Legislature creating the office of State Hydraulic or State Engineer. By this Act the State Engineer was given general supervisory control over the public water supplies of the state, and was charged with the duty of making measurements of the flow of the public streams of the state and the collection of necessary data on stream flow and the useful purposes to which the waters from these streams may be placed, and with collecting all data and information regarding snowfall for the purpose of predicting probable run-off.

Pursuant to these requirements the first stream gaging station was established on the Cache la Poudre river at mouth of canyon, about twelve miles west of Fort Collins, on June 20, 1881. The second station was established on the Big Thompson in August of the same year. In 1883, E. S. Nettleton, then State Engineer, re-established the above stations and extended the work of stream gaging to the St. Vrain and other tributaries of the South Platte.

The next gaging station established was on the Arkansas river at Pueblo in 1885. Due to shifting channel conditions this station was moved to a point nine miles above Pueblo and later to Canon City, at which point a station has been maintained continuously to the present time, making the record of stream flow at that point the second longest in the state.

During this time State Engineer Nettleton developed the first practical current meter to meet the conditions of stream flow in the





## INTRODUCTION (continued)

state. This was known as the Colorado meter, and was quite similar in principle to the modern current meter. He also devised and installed at the Cache la Poudre River station, in 1884, what was probably the first automatic river-stage recording instrument ever used in the United States, and it is believed that this record is the oldest continuous record in the United States. The recorder for a time was connected by a 12-mile wire with a recording instrument in the office of Prof. L. G. Carpenter in Fort Collins and this also constituted the first attempt at long distance recording. The methods devised by Mr. Nettleton for obtaining the discharge of a stream are essentially the same as those now in general use.

In 1888 the U. S. Geological Survey, by order of Major Powell, established a camp on the Rio Grande near Embudo, New Mexico, for the instruction of a number of employees in the principles of hydrographic investigations. This work was under the supervision of F. H. Newell, who later became chief hydrographer of the Geological Survey, and then chief engineer and director of the U. S. Reclamation Service.

After much study and experimentation, the methods of stream gaging which had been developed by State Engineer Nettleton were adopted and put into practice by the hydrographic division of the Geological Survey. In 1889 Mr. Newell established the first gaging station on the Rio Grande near Del Norte, which station has been maintained since that date, making the record of stream flow at that station the third oldest in the state.

From 1881 to 1902 the meagre appropriations provided by the



## INTRODUCTION (continued)

legislatures of Colorado for stream gaging work permitted but a nominal expansion of this work to additional streams in the state, by no means in keeping with the needs of administration and the collection of data on the water supplies thereof.

Following the passage of an Act by Congress authorizing an irrigation and hydrographic survey throughout the arid states, Congress made an appropriation in 1889 of \$250,000 for such purposes. The possibilities of extending irrigation development in Colorado, where the state had already inaugurated a system of hydrographic investigations, offered an opportunity for co-operation between the Geological Survey and the state, as a result of which this work was enlarged. Lack of state appropriations, however, resulted in turning over practically all stream gaging work to the Geological Survey. Following the passage of the Reclamation Act in 1903, practically all stream gaging work in the state was financed and carried on by the Reclamation Service, which was a branch of the Geological Survey. Much of this work was done in connection with its investigations of possible reclamation projects.

Reductions in appropriations by Congress in 1906 for the hydrographic work made it necessary for the state to take over a large part of the work formerly conducted by the Geological Survey. Increase in appropriations by the legislature from time to time enabled the State Engineer to expand the work throughout the state, until more than one hundred stream gaging stations were being maintained, but did not permit proper maintenance and needed expansion.

In 1933 the State Engineer entered into a co-operative agreement with the Geological Survey by which all state appropriations for





## INTRODUCTION (continued)

hydrographic work were substantially matched with federal funds, since which date the co-operation has remained in effect. This co-operation has permitted a great expansion of the work throughout the state until at the present time more than two hundred gaging stations are in operation, practically all of which are supplied with up-to-date automatic recorders and the standard equipment in use by the Geological Survey throughout the United States.

The work is gradually being extended as funds are made available for such purposes. At the present time about \$60,000 of state and federal funds is being expended each year on hydrographic investigations in Colorado.

In this connection co-operation is also received from the Bureau of Reclamation, the Corps of Engineers, Bureau of Agricultural Engineering, Weather Bureau and Forest Service, and the following municipalities, corporations and local agencies: City and County of Denver, Loveland, Grand Junction, Arkansas Valley Ditch Association, Rio Grande Water Users Association, Uncompahgre Valley Water Users Association, Del Norte, Terrace and Trinchera Irrigation Districts, Costilla Estates Development Company, Public Service Company of Colorado and Western Colorado Power Company. In addition, the State Engineer's office co-operates with the States of Nebraska, Kansas and New Mexico in obtaining stream flow data on certain interstate streams.



EXPLANATION OF DATA

SUMMARY: The need for accurate summary tables of all stream discharge records in Colorado has long been apparent in the field of water supply studies. The Water Resources Survey has attempted to fill that need with two volumes of stream discharge records, designated as "Volumes I and II of Appendix No. 3, Water Resources of Colorado.\* Volume I contains recorded discharges at stream gaging stations in the North Platte, South Platte, Republican, Arkansas and Rio Grande River basins. Volume II contains the recorded discharges at stream gaging stations in the San Juan, Colorado and Green River basins.

Various studies made in the past have shown the value of even short-time records in water supply studies and extensions of these short-time records, by comparison with long-time records on streams having similar run-off characteristics, are often used. The records of stream discharge at all stations mentioned in various indexes and reports of the State Engineer, the United States Geological Survey and the Denver Board of Water Commissioners have been included, regardless of their length.

Unless otherwise noted, all discharge records were copied from the official records on file in the office of the State Engineer of Colorado.

RECONCILIATION OF DATA: The compilation of stream flow records for this volume became somewhat complicated when differences were found in the published reports of the State Engineer and of the United States Geological Survey for some of the stations. These differences have been analyzed and reconciled wherever possible. Many of the differences resulted from "rounding off" or from the use of different numbers of significant figures in the computation of the discharges.





## INTRODUCTION (continued)

**LIMITATIONS:** The longer and more complete the records, the more reliable are the computed figures. In using means and per cents as published herein, special attention should be given to the line "number of items". Especially for short-time records, comparisons should be made, if possible, with concurrent months or years at some nearby long-time gaging station to determine the reliability of the mean discharge quantities.

**LISTING OF GAGING STATIONS:** To facilitate comparison of monthly or annual discharges along any particular stream, the tables have been arranged with gaging stations listed in downstream order, from source to mouth.

### DEFINITION OF TERMS

**UNITS USED:** Since, in the practical application of discharge records to water supply studies, a unit of 1,000 acre-feet is generally used, this unit carried to one decimal place has been adopted in most of the tables. Where the discharges are quite small actual acre-foot units have been used and so designated in the tables. A discharge of less than 51 acre-feet appearing in a table utilizing 1,000 acre-foot units, is denoted by the letter T, whether it be 1 or 50 acre-feet.

**"NO.ITEMS":** Figures on this line at the bottom of the columns in the tables show the number of individual monthly records listed therein.

**"MEAN" (monthly):** The monthly mean, as shown, is computed for all years of record for that month.

**"MEAN" (annual):** The sum of the twelve monthly means. (See # below)

**"% MEAN ANNUAL":** This result under each month is the per cent that each "mean (monthly) is of the "mean" (annual).



## INTRODUCTION (continued)

"ANNUAL IN % MEAN": The right hand column on the sheet is the per cent that each full year is of the "mean annual". It should be kept in mind that these figures depend directly upon the mean annual quantity, which quantity is influenced greatly by the period of record for that station. In other words, the per cents of mean annual of one gaging station, whose record covers only a low cycle of run-off, can not be compared directly with another station whose record covers either high cycle or average run-off periods. See "Limitations" on preceding page.

STATION LOCATIONS: Volume II of Appendix No. 3 contains an "Index Map - Stream Gaging Stations of Colorado," showing the locations of all stream gaging stations in Colorado, regardless of their length of record.

The Water Resources Survey, in Appendix No. 2 "Data On Stream Gaging Stations of Colorado", pages 49 to 73, lists all stream gaging stations, and gives their last published locations by section and township, with other pertinent notes.

STANDARD NOTATIONS: In presenting the data in these volumes it became necessary to adopt certain symbols to eliminate qualifying notes. These have been kept in standard form and are as follows:

- A - Approximate - Used on drainage area and altitude.
- C - Computed - By the State Engineer or the U.S. Geological Survey.  
Considered better than estimated figure.
- E - Estimated - By the State Engineer or the U.S. Geological Survey.
- P - Record available for part of month.
- \* - Complete month estimated from partial record.
- T - Trace - Discharge of 50 acre-feet or less.
- # - Sum of monthly means. Mean annual discharge if twelve monthly means are included.
- x - Used combination with (#) where less than twelve monthly means are included.





TABLES OF MONTHLY DISCHARGES

North Platte River Basin

North Platte River

and

Tributaries

—

Stations in Downstream Order



NP-1 - Discharge of Big Grizzly Creek near Walden (Hebron), Colorado

Unit: 1,000 Acre-Feet      Drainage Area 229 Square Miles      Altitude 8,000 Feet.

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	IN
1904								P	9.0	0.7	0.9	0.5		S
1905	0.8						P	14.0	13.4	2.1	0.3	0.2		S
1906	0.4													S
1923								30.3	20.2	8.0	2.9	1.7		
1927	1.1						20.8E	30.2*	13.9	2.8	2.2	1.1		
1928	1.4	P					P	30.3	15.6	2.4	2.1	1.3		
1929	1.2	P						P	15.9	3.9	3.4	3.7		
1930	2.2	P					22.0	11.1	8.0	1.9	3.5	1.8		
1931	1.3	P						P	2.5	0.4	0.4	0.5		
1932	1.2						P	50.0	12.9	2.0	1.4	0.3		
1933	0.5*	1.3*					P	16.9	15.3	0.4	0.5	0.7		
1934	0.6	0.9*					P	1.8	0.1	0.0	0.0	0.0		
1935	0.0	P						P	7.6	0.7	0.5	0.4		
1936	0.4	P					P	19.7	7.7	1.5	1.6	0.5		
1937	0.7	0.7					7.0	7.0	4.6	1.0	0.7	0.3		
1938	0.5	0.7*					P	18.4	11.6	1.3	0.7	1.8		
No Items	14	4					3	11	15	15	15	15		
Mean	0.85	0.90					16.60	20.24	11.27	1.75	1.42	0.77	754.17x	

S: Station at Hebron, 1½ miles upstream.





## NP-2 - Discharge of North Platte River near Walden (Hebron), Colorado

Unit: 1,000 Acre-Feet		Drainage Area 446 Square Miles										Altitude 7,700A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN
1904								P	43.9	9.7	5.6	2.6	S
1905	3.5						P	29.5	56.5	10.1	3.3	1.1	S
1906	1.7												S

1904	6.6	5.8					29.9	49.0	51.1	0.0	3.1	1.9	
1905	6.8						19.9	27.3	28.4	9.5	6.5	8.2	
1906	9.4	P					53.3	40.2	35.6	11.1	4.9	2.3	
1907	3.5	3.3*					44.7*	69.5	61.9	16.4	8.3	5.4	
1908	6.3	P					24.0	75.0	53.0	14.3	6.8	3.7	
1909	3.2	P					P	52.4	66.6	26.8	10.0	9.9	
1910	7.4	P					49.4	24.3	32.5	8.3	12.3	5.1	
1911	8.4	3.3*						14.7	16.9	2.4	2.2	1.8	
1912	3.6	3.2*	1.8E				34.8*	61.5	54.5	19.0	7.4	2.6	
1913	2.9	P					P	25.6	58.3	5.1	4.0	3.0	
1914	2.8	2.0*					P	15.0	3.0	0.7	1.3	0.7	
1915	0.7	1.5	1.8*	1.7E	1.6E	3.4*	6.1	14.6	49.9	13.1	3.2	1.7	99.3
1916	1.8	2.6	2.6E	2.0E	2.3E	3.7E	40.7*	62.5	47.5	10.4	6.2	2.2	194.5
1917	3.3	3.2					19.8	36.6	31.1	9.7	3.7	1.7	
1918	2.8	3.0					P	42.9	53.6	8.8	3.8	6.5	
No. Items	17	9	3	2	2	2	11	16	17	17	17	17	
Mean	4.39	3.10	2.07	1.85	1.95	3.55	20.20	40.04	43.78	10.72	5.48	3.55	#150.75
% Mean													
Annual	2.91	2.06	1.37	1.23	1.29	2.36	20.03	26.56	29.04	7.16	3.64	2.35	100.00
S: Station near Hebron.													

## NP-2A - Discharge of North Platte River near Cowdrey, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 610 Square Miles										Altitude 7,870A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN
1904								P	59.6	18.7	9.5	4.9	
1905	5.5						20.5	31.1	74.5	19.4	9.7	4.6	
1906	3.6												
No. Items	2	2					1	1	2	2	2	2	
Mean	4.55						20.50	31.10	57.05	19.05	9.60	4.75	#156.60x





# NP-3 - Discharge of North Platte River near Northgate (Pinkhampton), Colorado

Unit: 1,000 Acre-Feet		Drainage Area 1,440 Square Miles							Altitude 7,807 Feet					
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
904								P	92.2	30.8	14.2	8.4		
905	8.2	P											S	S

1915								P	54.0	22.6	11.3	9.9		
1916	12.6	12.5*	11.5E	8.7E	10.4E	28.3E	37.5*	73.8	86.3	40.7	34.6	18.3	375.2	103.2
1917	20.6	12.7*	11.3E	10.6E	9.3E	12.8E	51.9*	147.0	190.0	120.0	28.2	12.1	26.5	172.4
1918	14.2E	14.8E	12.9E	11.3E	9.8E	23.7E	47.6*	86.7*	169.0*	43.2*	10.7*	10.7*	454.6	125.1
1919	18.8E	14.9E	11.2E	9.6E	8.6E	16.2E	39.2*	49.4	25.5	8.5	9.2	5.6	221.1	60.3
1920	9.5	10.2E	10.5E	9.8E	9.8E	11.7E	21.4E	135.0*	164.0	60.4	27.0	14.6	483.2	133.2
1921	14.1	14.0E	10.3E	11.3E	10.9E	25.9E	26.2*	101.0	193.0	55.6	31.5	15.1	508.9	140.0
1922	10.7	P					P	65.2	71.4	15.7	8.8	7.1		
1923	4.7	4.8*	4.6E	4.9E	4.2E	5.5E	24.8*	125.0	191.0	87.3	29.4	20.1	508.3	139.9
1924	17.7	P					73.8	21.0	121.0	31.9	8.3	4.7		
1925	15.2	P				P	41.1	42.4	72.0	33.4	25.3	22.0		
1926	25.9	P					102.0*	121.0	115.0	59.3	17.9	7.0*		
1927	9.4	7.4*	6.2E	7.4E	8.3E	13.5E	77.4*	124.0	106.0	41.1	21.5	13.2	437.4	120.4
1928	15.9						P	148.0	127.0	45.2	20.0	8.2		
1929	10.0	P					P	123.0	151.0	62.1	27.0	29.9		
1930	21.3	14.9E	12.3E	8.0E	12.2E	14.4E	107.0	38.2	58.9	16.0	29.0	13.0	345.2	95.0
1931	17.5	7.7*	5.5E	6.2E	6.7E	8.6E	46.1*	25.7	36.2	7.6	6.7	4.9	182.4	50.2
1932	10.2	8.4*	6.8E	6.5E	6.3E	9.8E	91.6*	126.0	101.0	46.5	20.1	6.9	440.1	121.1
1933	8.7	10.2	4.7*	3.0*	2.0*	7.6*	21.3*	44.8	119.0	16.1	11.3	7.7	256.4	70.6
1934	7.5	7.2	6.2*	4.4*	5.0*	11.7*	18.9	17.5	5.3	1.6	2.4	1.4	89.1	24.5
1935	2.0	3.2*	3.3C	3.1C	2.8C	7.5C	16.0*	22.2	92.0	31.8	11.9	4.9	200.7	55.2
1936	5.6	8.5*	4.4C	2.9C	3.8C	7.9C	89.1*	86.3	74.0	25.8	18.4	5.5	332.2	91.4
1937	8.2	9.2*	3.8C	2.4C	3.2C	9.6C	30.4*	51.8	54.1	27.8	9.9	4.7	215.1	57.2
1938	7.9	7.3*	5.6	5.0*	5.0	7.7	84.5	90.0	128.8	29.0	12.6	16.7	400.1	109.6
10. Items	24	17	17	17	17	17	20	23	25	25	25	25		
Mean	12.35	9.88	7.71	6.77	6.96	13.08	52.59	84.17	104.16	38.40	17.97	10.90	#34.84	
Ann'l. Annl	3.38	2.71	2.11	1.86	1.91	3.58	14.41	25.07	28.54	10.54	4.92	2.99	100.00	

3: Station near Pinkhampton. Location approximately the same.





# NP-3A - Discharge of North Platte River near Pinkhampton, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 1,480 Square Miles										Altitude 7,590 Feet			
YEAR		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1904															
1905	P	8.2							P	92.2	30.8	14.2	8.4		

No. Items	1	1	1	1	1	
Mean	6.90	92.20	30.80	14.20	8.40	#153.80x
Included with discharge on "North Platte River near Northgate." Figures as corrected in W.S.P. 469.						

# NP-3½ - Discharge of North Platte River at Saratoga, Wyoming

Unit: 1,000 Acre-Feet		Drainage Area 2,880 Square Miles										Altitude 6,774 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1903									P	78.1	27.4	35.2		
1904	40.6	33.7	32.2	19.8	17.3E	36.2	88.1	276.0	321.0	82.4	30.7	19.8	997.8	104.2
1905	23.1	15.4	13.5*	12.3E	13.9E	26.1	56.6	205.0	418.0	86.1	26.4	13.5	909.9	95.0
1906	18.4	19.9	16.9*	15.4E	13.9E	24.6*	99.4	291.0	337.0	123.0	33.3	29.7	1,022.5	106.7
1909														
1910	31.4	23.8	P				78.0	360.0	768.0	319.0	87.3	60.1		
1911	30.7E	26.8E	18.4E	15.4E	16.7E	24.6E	89.3*	234.0	320.0	78.1	18.6	12.4	885.0	92.4
1912	31.2	18.2*	15.4E	13.8E	14.4E	22.8*	69.0	250.0	497.0	196.0	54.2	36.1	1,218.1	127.2
1913	42.1	26.8E	24.6E	21.5E	19.4E	30.7E	160.0	235.0	218.0	40.2	17.3	15.5	871.1	90.9
1914	27.0	23.8E	21.5E	18.4E	16.7E	27.7E	132.0	384.0	422.0	86.1	29.8	17.0	1,206.9	126.0

1881 1000  
1882 1000  
1883 1000  
1884 1000  
1885 1000  
1886 1000  
1887 1000  
1888 1000  
1889 1000  
1890 1000  
1891 1000  
1892 1000  
1893 1000  
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1900 1000

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1898 1000  
1899 1000  
1900 1000



# NP-3½ - Discharge of North Platte River at Saratoga, Wyoming (Continued)

Unit: 1,000 Acre-Feet														Drainage Area 2,880 Square miles		Altitude 6,774 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL	ANNUAL IN		
1915	34.3	20.1E	18.4E	15.4E	13.9E	24.6E	89.3	124.0	193.0	48.0	19.0	18.9	618.9	64.6			
1916	28.4	22.7	20.2	14.8	18.2	61.5	89.3	220.0	263.0	73.8	44.8	50.6	857.3	94.6			
1917	42.0	23.1	20.2	18.6	16.4	23.2	130.0	311.0	625.0	304.0	58.4	28.2	1,600.1	157.0			
1918	25.8	27.3	23.1*	19.9E	17.3E	47.5	76.8	257.0	453.0	95.9	26.0	21.5	1,093.1	114.1			
1919	36.8	28.1	19.6	16.3	14.5	30.5	93.4	219.0	114.0	16.7	13.7	8.7	612.3	63.9			
1920	16.7	17.3	17.7*	16.7	16.7	21.0	42.8	421.0	497.0	115.0	39.2	23.4	1,245.5	130.0			
1921	25.6	25.5	17.4*	19.8*	19.2*	54.0	56.9	302.0	607.0	138.0	59.6	28.0	1,353.0	141.2			
1922	20.5	20.4*	17.3*	13.4*	14.2*	27.2	83.3	218.0	278.0	42.8	15.1	10.1	760.3	79.4			
1923	11.9	16.4	14.7*	15.9*	13.3*	16.6	57.8	264.0	445.0	149.0	39.2	25.0	1,078.8	111.6			
1924	32.0	26.2	18.4	15.7*	12.1*	15.6*	117.0	235.0	293.0	47.1	11.5	10.1	833.7	87.0			
1925	29.0	25.1	17.6*	16.4*	16.7	50.1	86.3	194.0	221.0	100.0	40.1	41.5	837.8	87.5			
1926	62.7	40.7	28.0*	22.8*	24.0*	38.6	200.0	364.0	342.0	90.4	32.7	15.5	1,261.4	131.7			
1927	17.7	15.6*	13.1*	15.0*	15.0*	25.5	100.0	341.0	334.0	87.9	39.8	25.0	1,029.6	107.5			
1928	37.1	42.1	33.0*	28.0*	22.8*	44.8	95.8	464.0	343.0	91.0	30.3	17.0	1,248.9	130.4			
1929	24.4	25.1*	16.8*	16.7E	14.9E	23.4	124.0	271.0	456.0	144.0	51.4	51.4	1,219.1	127.3			
1930	39.7	27.7	23.4*	14.9E	22.8*	27.4	155.0	123.0	155.0	27.8	49.6	24.6	690.9	72.1			
1931	38.1	17.4*	11.9E	13.5*	14.4*	18.7	80.9	116.0	128.0	16.1	12.9	12.3	480.2	50.1			
1932	23.2	18.1*	14.6E	13.9E	13.5E	20.9*	151.0	316.0	304.0	101.0	32.3	14.9	1,023.4	106.8			
1933	23.9	22.0	11.8E	9.3E	7.8E	26.2	51.1	138.0	361.0	44.3	20.1	16.4	731.9	76.4			
1934	16.6	15.4	15.5	11.6*	12.4	20.7	46.4	70.7	16.6	3.6	5.1	4.0	238.6	24.9			
1935	7.9	9.3C	11.2C	12.7C	11.2C	16.1C	29.3C	74.6	267.5	59.9	19.6	8.8	528.1	55.1			
1936	11.8	19.4	16.4C	13.6C	14.5C	23.0	140.2	282.6	195.4	47.0	28.2	9.9	802.0	83.7			
1937	17.8C	19.0	12.8	11.2	10.1	20.5	62.3	189.8	204.6	68.2	17.8	11.7	645.8	67.4			
1938	17.5	17.5	14.8	13.9	15.0	25.0	127.6	257.7	329.0	59.7	23.9	32.4	934.0	97.5			
No. Items	32	32	31	31	31	31	32	32	32	33	33	33					
Mean	27.68	22.81	18.40	16.02	15.59	28.88	95.59	250.89	335.25	92.76	31.98	22.15	#958.00				
% Mean																	
Annual	2.89	2.38	1.92	1.67	1.63	3.01	9.98	26.19	35.00	9.68	3.34	2.31	100.00				





# NP-4 - Discharge of Little Grizzly Creek near Hebron, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 96 Square miles

Altitude 8,000± Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1904														
1905	0.9						P	11.2	23.9	3.0	1.1	0.6		
1906	1.2									8.5	0.8	0.4		
1931														
1932	1.7	2.0	P				11.9*	22.1	21.2	0.3	0.1	0.6*		
1933	0.9	P					P	10.7	22.4	8.8	2.4	0.1		
1934	0.7	0.5	P				4.0	7.1	0.4	2.8	0.7	0.6		
1935	0.3	0.9	0.6E	0.4E	0.4E	0.9E	2.9	4.1	17.9	0.0T	0.0	0.0		
1936	0.4	1.2					P	20.5	15.7	3.0	0.5	0.4	32.3	74.1
1937	0.8	0.9					4.0	15.5	9.8	2.8	1.3	0.3		
1938	0.3	0.8*					P	13.8	16.1	2.4	0.6	0.3		
No. years	9	6	1	1	1	1	4	8	8	10	10	10		
Mean	0.80	1.05	0.60	0.40	0.40	0.90	5.70	13.12	15.92	3.40	0.82	0.48	#43.59	
% Mean														
Annual	1.83	2.41	1.38	0.92	0.92	2.06	13.08	30.10	36.52	7.80	1.88	1.10	100.00	



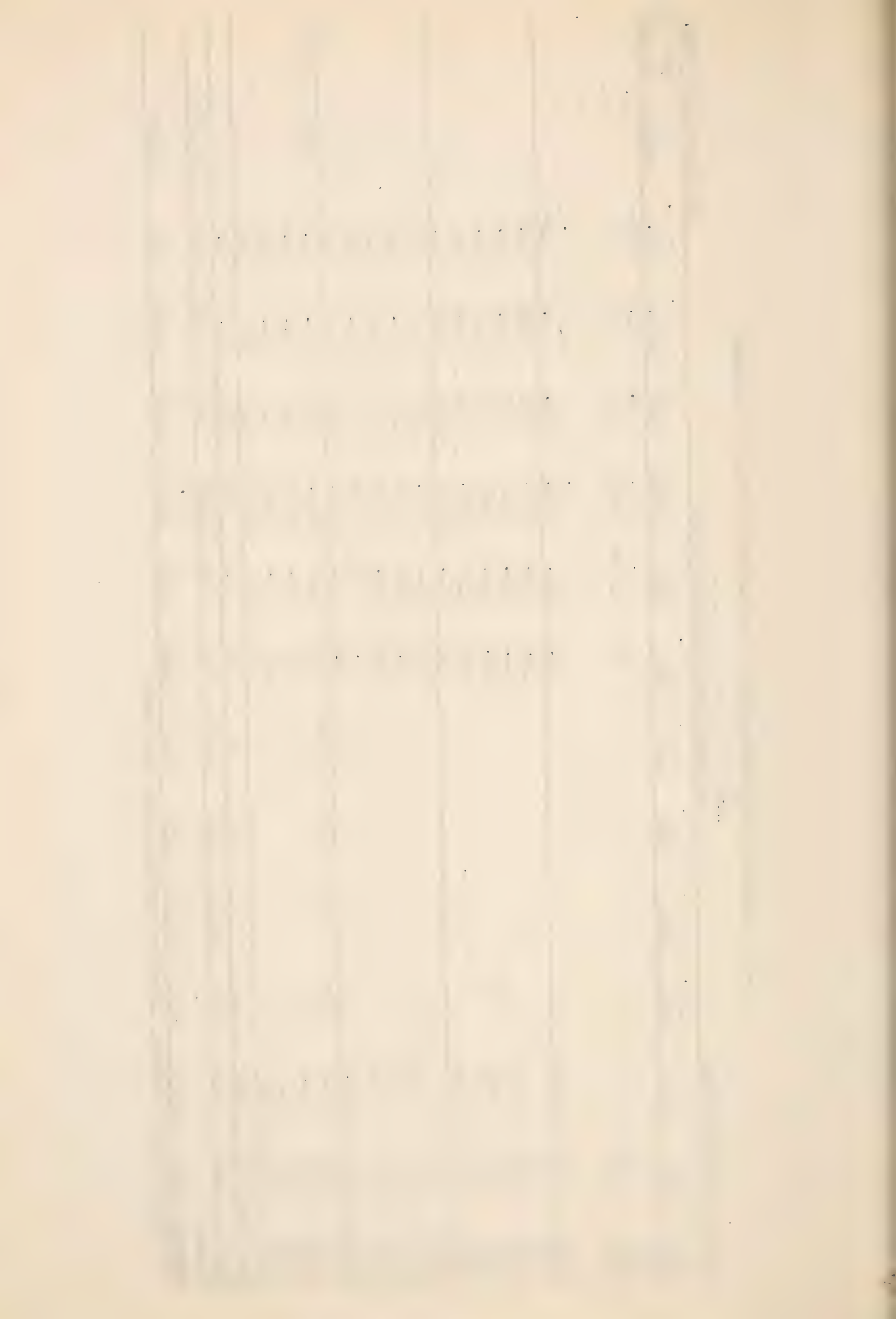
# NP-5 - Discharge of Roaring Fork near Walden (Hebron), Colorado

Unit: 1,000 Acre-Feet      Drainage Area 84 Square miles      Altitude 8,037 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN
1904	0.8*						P	2.7*	19.5	5.5	1.3*	0.6*	S	
1905	0.8										1.9	0.5	S	
1906													S	
1924	1.7*	1.7					P	12.1	18.8	3.4	1.9	1.2*		
1925	1.9						3.6	6.0	10.9	4.3	3.8	4.6		
1926	4.5	2.6					9.8	11.0	13.7	5.7	2.9	1.3		
1927	1.4	1.3	P				8.6	14.2	22.4	9.1	4.1	2.5		
1928	2.3	P					4.7	15.6	17.1	7.8	4.3	2.0		
1929	1.4	1.2*					P	7.9	18.7	11.4	5.2	4.5		
1930	3.9						12.3	4.0	10.7	3.9	5.2	2.0		
1931	2.6	1.3*					P	2.1	5.7	1.1	1.4	1.2		
1932	1.9	1.6*					8.9*	13.5	18.9	11.1	4.7	1.5		
1933	1.8	1.2*					P	3.5	18.4	2.7	2.0	1.2		
1934	1.2	0.8					P	5.2	1.0	0.4	1.0	0.4		
1935	0.5	0.7	0.7*	0.7E	0.7E	1.0*	2.2	2.9	14.4	0.4	2.2	0.8	32.2	70.3
1936	0.9	1.0	P				P	15.8	19.3	5.5	3.1	1.3		
1937	1.4	1.1					3.2	9.2	11.0	4.7	2.0	1.2		
1938	1.4	1.2					P	7.7	19.7	4.5	2.3	3.4		
Mean	1.7	1.2	1	1	1	1	9	16	16	16	17	17		
Mean	1.76	1.31	0.70	0.70	0.70	1.00	6.17	8.34	15.01	5.41	2.90	1.78	45.7%	
% mean														
Annual	3.84	2.36	1.53	1.53	1.53	2.18	13.48	18.22	32.79	11.82	6.33	3.89	100.00	

S: Station near Hebron. Location approximately the same.





# NP-5A - Discharge of North Fork of North Platte River at Higho, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 74 Square Miles										Altitude 8,025A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN
1904								P	9.6	6.5	4.7	2.8	ANNUAL IN
1905	2.7						4.5	3.8	9.9	6.6	4.0	1.8	
1906	1.6												
No. Items	2						1	1	2	2	2	2	
Mean	2.15						4.50	3.80	9.75	6.55	4.35	2.30	33.40x

# NP-5B - Discharge of North Fork of North Platte River near Walden, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 168 Square miles										Altitude 8,000A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN
1924	3.5	P					P	8.7	11.6	5.9	3.3	1.4	ANNUAL IN
1925	2.9	P					4.2	3.4	8.4	9.3	5.5	5.0	
1926	6.2	P					15.1	9.4	12.0	11.7	5.0	2.0	
1927	1.7	2.1*					15.8	11.1	15.5	13.0	7.2	3.9	
1928	4.2	P					P	13.5	15.5	12.4	7.3	4.2	
1937								P	10.5	9.0	4.1	2.0	
1938	2.2	2.0					P	10.3	15.0	8.5	5.0	4.0	
No. Items	6	2					3	6	7	7	7	7	
Mean	3.45	2.05					11.70	9.40	12.64	9.97	5.34	3.21	57.76x

THE UNIVERSITY OF CHICAGO

# NP-7 - Discharge of Michigan River near Lindland, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 62 Square Miles				Altitude 8,734 Feet			
															ANNUAL		% MEAN
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN			
1931										0.9*	1.2	1.0					
1932	1.1	0.6E	0.3E					9.4	13.7	4.3	2.1	0.8					
1933	0.8	0.7*						9.8*	20.9	3.5	1.3	1.2					
1934	0.8	0.9					1.2	4.2	2.6	1.2	1.2	0.7					
1935	0.4	0.2					P	3.2	13.8	4.2	1.3	0.6					
1936	0.4						P	11.1	9.2	2.0	1.6	0.8					
1937	0.6	P					P	4.8	5.7	2.2	0.8	0.8					
1938	0.8	P					P	11.4	20.6	2.7	1.2	2.0					
No. Items	7	4	1				1	7	7	8	8	8					
Mean	0.70	0.60	0.30				1.20	7.70	12.36	2.62	1.34	0.99	#27.61x				

# NP-7½ - Discharge of Michigan River at Haworth School, Colorado

Unit: 1,000 Acre-Feet										Drainage Area			Square Miles	Altitude		Feet
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1937								5.4	6.	3.6	1.1	0.9				
1938	1.0	P					P	14.0	25.0	4.6	1.6	2.3				
No. Items	1							2	2	2	2	2				
Mean	1.00							9.70	15.90	4.10	1.35	1.60	#33.65x			

1. The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance in the theory of differential equations.

2. In the second part, we consider the case of a linear differential equation. It is shown that the problem is solvable in this case.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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# NP-8 - Discharge of Michigan River near Walden, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 185 Square Miles      Altitude 8,045 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	A.M.L. IN
1904								P	19.3	8.4	3.3	1.8		
1905	1.6							P	22.4	6.0	1.9	0.5		
1906	0.9													
1918									32.0	P				
1923														
1924	3.4	2.7					P	11.1	30.2	10.5	3.6	2.8		
1925	2.6	P					7.1	10.7	23.0	5.4	0.9	0.6		
1926	3.5	P					12.5	7.2	14.5	5.0	4.6	3.9		
1927	1.9	P					4.2*	19.3	22.5	13.3	3.5	1.5		
1928	2.2	P						21.6	17.5	4.3	2.8	1.8		
1929	1.6	P					P	20.7	22.0	9.3	3.7	1.0		
1930	3.3						10.1	21.0	29.8	8.7	4.2	5.2		
1931							P	2.9	7.0	0.9	5.5	2.6		
1932	1.9	1.6*					P	1.6	7.7	1.6	1.3	1.0		
1933	1.5	P					P	18.9	14.6	4.3	2.8	1.4*		
1934	1.5	1.4*					P	6.5	22.5	2.6	1.5	1.5		
1935	0.6	0.4					4.3	2.4	1.4	0.2	0.6	0.4		
1936	1.1	P					P	1.4	13.2	2.0	2.1	1.1	27.6	54.1
1937	1.3	1.1					P	9.6	5.4	2.4	2.6	0.8		
1938	1.2	1.6					P	2.7	4.5	3.2	1.1	0.8		
1939	1.1	1.6					P	13.0	21.2	3.2	1.7	3.3		
1940	1.1	1.6					P	16	19	18	18	18		
1941	1.0	1.47					7.64	10.66	17.41	5.07	2.65	1.78	21.06	
% Lean														
Annual	3.68	2.88	0.98	0.98	0.78	2.15	14.96	20.88	34.10	9.93	5.19	1.49	100.00	



NP-8A - Discharge of Michigan River near Cowdrey, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 509 Square Miles			Altitude 7,878 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNL.IN
1904								P	20.4	9.1	4.2	2.1			
1905	1.7						7.9	11.4	27.7	7.5	3.1	0.6			
1906	1.1														

1937								P	4.9	3.9	0.8	0.5			
1938	0.8	1.3					P	20.2	33.9	4.8	1.5	4.3			
No. Items	3	1					1	2	4	4	4	4			
Mean	1.20	1.30					7.90	15.20	21.72	6.32	2.40	1.80	#38.52x		

NP-8½ - Discharge of Owl Creek near Lindland, Colorado

Unit: Acre-Feet														
Drainage Area														
Square miles														
Altitude														
Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1937									P	382	85	81		

No. Items										1	1	1			
Mean										382.0	85.0	31.0	#548.0x		

Note: Not indicative of stream flow. Treasure Ditch diverts water from Michigan River into Owl Creek half a mile above station.





# NP-9 - Discharge of Illinois Creek near Rand, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 77 Square Miles		Altitude 8,331 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN		

1931										1.5*	0.5	0.5		
1932	0.5	0.6E	0.2E					13.9	11.9	3.5	1.2	0.4		
1933	0.4							6.6*	15.0	2.1	0.4	0.7		
1934	0.5	P					P	4.6	1.6	0.4	0.2	0.2		
1935	0.2						P	3.2	12.1	2.9	0.5	0.3		
1936	0.4						P	11.4	6.3	1.7	1.7	0.4		
1937	0.4						P	6.0	5.5	2.1	0.6	0.4		
1938	0.6	P					P	12.5	13.8	2.7	0.6	1.0		
No. Items	7	1	1					7	7	8	8	8		
Mean	0.43	0.60	0.20					8.31	9.46	2.11	0.71	0.49	#22.31x	

# NP-10 - Discharge of Illinois Creek near Walden, Colorado

Unit: Acre-Feet													Drainage Area 254 Square Miles													Altitude 8,039 Feet												
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL	% MEAN	ANNUAL	% MEAN																				

1917								30900	38500	13000	1700			
1918								8300	15900	1780	482			
1923								13600	25300	10900	3500	2440		
1924	2110	P					P	10600	16000	2040	153	163		
1925	1440	1030					7860	2480	7480	2530	2170	1590		
1926	2470	P					16800	18700	15500	7990	1800	434		
1927	978						12700	16700	9890	2490	1180	827		
1928	959						10500	18800	13000	2960	755	150		
1929	707	P					P	16000	16000	3230	2530	3520		
1930	2630	P					16400	3440	5650	486	3630	1450		
1931	1040	803*					P	2740	3600	799	379	314		
1932	411	357*					P	14300	9520	2930	1210	204		
1933	347	P					P	3830	11500	480	432	308		
1934	321	309*					1080	55	55	7	7	1		



# NP-10 - Discharge of Illinois Creek near Walden, Colorado (Continued)

Unit: Acre-Feet											
Drainage Area 254 Square miles											
Altitude 8,039 Feet											
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
1935	9	38	12E	31E	39E	123*	560	236	6440	1790	213
1936	206	557	P				P	4020	4110	1230	1500
1937	206	392					P	412	3750	1810	133
1938	398	322					P	10660	15780	1880	207
No. Items	15	8	1	1	1	1	7	18	18	18	16
Mean	948.8	476.0	12.0	31.0	39.0	123.0	9414.3	9765.2	12198.1	3240.7	1226.8
% Mean											
Annual	2.48	1.24	0.03	0.08	0.10	0.32	24.59	25.51	31.86	8.47	3.20
										2.12	100.0

# NP-11 - Discharge of Willow Creek near Rand, Colorado

Unit: Acre-Feet											
Drainage Area 62 Square miles											
Altitude 8,530 Feet											
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
1931										198*	290
1932	224	298E	123E				2260*	5530	3810	892	492
1933	222						P	1440	4270	272	266
1934	181	270					P	234	68	5	17
1935	62	P					P	346	3260	471	441
1936	279						P	2780	1720	796	994
1937	151	P					P	530	1220	444	311
1938	169	157					P	3710	5320	734	318
No. Items	7	3	1				1	7	7	8	8
Mean	184.0	221.7	123.0				2260.0	2031.4	2811.1	476.5	383.6
										223.6	#8764.9x





NP-11A - Discharge of Canadian River near Cowdrey, Colorado

Drainage Area 201 Square Miles														Altitude 7,700A Feet	
Unit: 1,000 Acre Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN	
1904								P	11.1	3.9	1.6	1.0			
1905	0.9						13.0	4.3	14.0	2.7	1.2	0.6			
1906	1.3														
1929								P	17.4	4.6	2.3	3.2			
1930	2.1						6.6	3.1	5.1	0.7	2.4	1.4			
1931	2.0	P					7.6	2.9	4.2	0.8	0.7	0.5			
1932	0.9	P													
1937								1.1	2.7	1.8	0.8	0.4			
1938	0.9	0.8					P	10.2	15.6	2.8	0.9	1.4			
No. Items	6	1					3	5	7	7	7	7			
Mean	1.35	0.80					9.07	4.32	10.01	2.47	1.41	1.21	#30.64x		

NP-12 - Discharge of Big Creek at Big Creek, Wyoming

Drainage Area 123 Square Miles (72 sq. mi. in Colorado)														Altitude 7,900A Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNL. IN
1913								P	15.9	4.5	1.6	1.4			
1914							P	21.2	29.2	7.1	3.2	2.1			
1915	2.6						P	6.2	12.0	4.6	2.4	1.9			
1916	2.2	P					6.0	16.5	26.5	10.3	3.9	1.9			
1917	2.8	P						15.8	46.5	29.3	5.4	2.4			
1918								P	38.3	7.5	2.5	2.0			
1919	2.2*						P	13.6*	9.8	3.0*	2.3*	1.2*			
1920	1.2*							P	37.5	12.7	4.4*	2.4			
1921	P						P	4.0	17.1	9.9*	5.1*	2.4			
1922	1.4						2.5	12.0	22.8	6.4*	2.0*				
1923								15.6	33.7	12.8	4.4	2.2			
1924	P							12.4	20.1	4.6	1.8	1.2			
No. Items	6						3	9	12	12	12	11			
Mean	2.07						4.17	14.49	27.72	9.39	3.25	1.92	#63.01x		

Note: May 7, 1911 to June 30, 1912 station near Downington, same location, sage heights only.



## NP-13 - Discharge of Encampment Creek near Encampment, Wyoming

Drainage Area 219 Square Miles										Altitude 7,142 Feet				
Unit: 1,000 Acre-Feet										ANNUAL IN				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1900								P	105.0	9.4	5.2	3.8		
1911								75.0	84.5	12.9	5.9	7.8		
1912	8.6	4.2*	3.4E	3.1E	2.6E	2.8E	7.4*	71.3	127.0	25.0	7.1	7.4	269.9	126.3
1913	5.5	3.6E	3.1E	2.8E	2.2E	2.8E	19.9	89.8	44.2	5.3	2.5	2.3	184.0	86.1
1914	2.4	2.1E	2.2E	1.8E	1.9E	3.1*	11.4	98.4	92.8	13.2	2.5	2.2	234.0	109.5
1915	4.4	3.6E	3.1E	2.8E	2.5E	2.8E	15.3	42.1	51.9	7.3	2.2	3.3	141.3	66.1
1916	3.8	2.7	2.5E	2.2E	2.0E	3.1E	22.8	79.9	97.0	13.8	6.0	4.2	240.0	112.3
1917	11.2	3.4*	2.5E	2.5E	1.9E	2.8E	8.0*	33.5	156.0	62.1	7.9	3.7	295.5	138.3
1918	4.3	5.4	3.7E	3.1E	2.2E	3.1E	13.1E	55.3E	102.0	12.9	1.6	2.8	209.5	98.0
1919	5.9	4.5*	3.1E	2.5E	1.9E	2.5E	15.1*	82.4	35.4	3.2	1.8	2.4	160.7	75.2
1920	3.1	3.0E	2.5E	2.5E	2.0E	2.5E	11.9E	75.6*	118.0	21.6	3.7	3.2	249.6	116.8
1921	3.2	3.0E	2.5E	2.5E	2.2E	3.4E	7.7	92.2	134.0	20.5	41.4	2.0	314.6	147.2
1922	1.4	1.8	1.5E	1.5E	1.4E	2.2E	3.9*	60.1	93.4	14.9	2.0	1.5	185.6	86.8
1923	1.7	2.1*	1.9E	2.1E	1.7E	2.2E	6.6	57.9	111.0	34.2	7.4	8.2	237.0	110.9
1924	5.0	3.4*	2.4E	2.0E	1.6E	2.0E	15.5E	66.4	53.7	6.1	1.1	1.1*	160.3	75.0
1929									139.0	30.2	4.0	6.4		
1930	6.2	3.9*	2.8E	2.3E	2.3E	3.1E	20.1*	43.2	44.3	3.6	4.5	2.8	139.1	63.1
1931	5.7	2.4*	2.5E	2.8*	1.9*	2.5E	7.2*	31.2	30.0	1.9	1.2	1.6	90.9	42.5
1932	3.2	2.5*	2.2E	2.1E	2.3E	2.8E	9.3*	79.3	107.0					
No. Items	16	16	16	16	16	16	16	17	19	18	18	18		
Mean	4.72	3.22	2.62	2.41	2.04	2.73	12.20	66.68	90.85	16.56	6.00	3.71	#213.74	
% Mean														
Annual	2.21	1.51	1.22	1.13	0.95	1.28	5.70	31.20	42.50	7.75	2.81	1.74	100.00	

Records obtained from United States Geological Survey Publications.





NP-14 - Discharge of Laramie River near Glendevoy, Colorado

Unit: 1,000 Acre-Feet														Drainage Area 101 Square miles		Altitude 8,231 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ADJ. L. IN			
1904									P	10.1	3.9	1.9					
1905	1.6	0.5E	0.5E	0.5E	0.6E	0.6E	1.9	14.8	37.3	7.9	3.7	1.1	73.0	133.4			
1906	0.5																
1910																	
1911	2.0	1.2	1.0	0.9	0.6	1.4	2.5	14.3	25.2	6.1	P	2.5	61.5	112.4			
1912	2.2	1.2	0.9E	0.9	0.9	1.0	1.2	12.6	32.3	16.4	3.3	2.2	75.1	137.2			
1913	2.2	1.3	0.7E	0.8E	0.7E	0.9E	4.2*	12.1	11.8	3.9	2.0	1.6	42.2	77.1			
1914	1.2*	1.5E	0.9E	0.8E	0.7E	0.9	3.0*	24.2	38.1	9.0	3.7*	1.5E	85.5	156.2			
1915	2.2E	0.9E	0.6E	0.5E	0.6E	0.6E	3.0E	10.0	15.4	4.9	3.1	2.0	43.8	80.0			
1916	2.1	1.2*	0.9E	0.9E	0.9E	1.2	3.6*	12.4	17.1	5.9	3.5	2.6	52.3	95.6			
1917	P								P	20.4	6.2	3.3					
1918	1.6	1.7	0.7*	0.7E	0.7E	0.9*	2.5	22.9	40.5	7.9	2.1	1.3	83.5	152.6			
1919	1.5E	1.2E	0.9E	0.9E	0.8E	1.1E	2.1*	13.1	6.5	1.7	1.3	1.1*	32.2	58.8			
1920								P	34.5	9.9	3.9	2.6					
1921	1.6	0.5	0.6*	0.7E	0.7E	0.9*	1.6	15.2	36.8	9.4	3.8	1.9	73.7	134.7			
1922	1.6	P					1.3	8.2	14.6	4.6	2.4	1.4					
1923	1.0	P						10.1	P	12.2	3.1	1.7					
1924	2.3							14.5	29.5	6.5	2.2	1.9					
1925	2.6	1.6*					P	10.1	9.6	4.5	3.2	2.6					
1926	3.0	P					3.5*	22.7	27.0	7.1	2.8	1.6					
1927	2.2	1.6					2.1	13.0	15.9	5.9	3.8	2.5					
1928	2.4	P					2.2	20.4	21.8	8.3	2.8	1.4					
1929	1.7	1.4					P	11.4	31.5	8.9	3.2	2.7					



# NP-14 - Discharge of Laramie River near Glendevy, Colorado (Continued)

Unit: 1,000 Acre-Feet										Drainage Area 101 Square miles		Altitude 8,231 Feet		
										ANNL. IN				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1930	2.3	P				P	4.6	9.4	9.9	2.8	3.2	2.1		
1931	2.7	P					2.8*	6.8	8.2	2.0	1.2	1.0		
1932	1.8	1.6*						15.6*	18.5	4.3	1.8	1.0		
1933	1.5	1.6*					1.5	7.3	32.3	3.7	1.3	1.6		
1934	1.9	1.2	P				3.7	6.5	1.1	0.7	0.9	0.8		
1935	0.9	0.9					1.5	5.0	26.3	4.4	1.4	1.3		
1936	1.8	1.6					P	13.5	9.5	2.2	1.8	2.0		
1937	1.6	1.4					2.1	8.0	7.1	2.0	1.1	1.4		
1938	1.8	1.3					P	13.6	26.8	6.0	1.4	2.4		
No. Items	28	20	10	10	10	10	20	27	27	30	30	31		
Mean	1.85	1.27	0.77	0.76	0.72	0.95	2.54	12.88	21.67	6.79	2.69	1.83	#54.72	
% Mean														
Annual	3.38	2.32	1.41	1.39	1.31	1.74	4.64	23.54	39.60	12.41	4.92	3.34	100.00	

# NP-15 - Discharge of Laramie River near Jelm, Wyoming

Unit: 1,000 Acre-Feet										Drainage Area 297 Square Miles				Altitude 7,685 Feet	
														ANNL. IN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1904									P	16.7	6.2	2.7			
1905	2.7	2.4E	2.2E	1.8E	1.4E	1.4E	3.0	28.2	69.0	13.0	6.0	2.4	133.5	105.1	
1906	1.7												S		
1911								P	47.1	13.7	4.4	2.6	189.8	149.5	
1912	4.2	3.7	2.8E	2.5E	2.6E	2.8E	3.6*	31.8	89.9	33.6	7.4	4.9	101.2	79.7	
1913	5.1	3.3	2.2E	2.5E	1.9E	3.1E	10.4*	31.7	26.2	8.3	3.4	3.1	186.8	147.1	
1914	4.4	3.3	2.8E	2.5E	2.2E	3.1E	6.8*	58.8	79.7	14.4	6.6	2.2			





NP-15 - Discharge of Laramie River near Jelm, Wyoming (Continued)

Drainage Area 297 Square Miles													Altitude 7,685 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1915	4.4	2.7E	1.7E	1.4E	1.6E	1.8E	7.1*	18.7	28.4	7.9	4.5	3.8	84.0	66.2
1916	4.2	3.0*	2.8E	3.0E	2.8E	4.0E	6.9	32.5	45.3	9.5	6.0	4.9	124.9	98.4
1917	5.5E	4.8E	4.0E	3.2E	2.8E	2.5E	6.0*	28.9	119.0	53.9	10.6	4.8	246.0	193.7
1918	2.7	2.4*	2.2E	2.2E	1.9E	2.8E	5.2*	35.7	69.6	14.9	5.6	3.6	148.8	117.2
1919	3.1E	2.7E	2.8E	2.8E	2.5E	3.1E	7.1*	26.1	16.8	5.6	3.4	2.2	78.2	61.6
1920	2.6*	2.1E	1.8E	1.8E	1.4E	1.8E	3.0E	36.3	82.7	17.5	9.1	4.5	164.6	129.6
1921	3.7	1.8E	2.5E	2.5E	2.2E	3.1E	5.1*	35.9	83.9	19.3	7.6	3.7	171.3	134.9
1922	3.0						P	20.6	29.7	7.4	4.2	2.2		
1923	1.9						P	27.7*	88.1*	24.3	6.2	3.9		
1924	4.7	4.5					P	31.7	58.8	11.6	4.0	3.6*		
1925	P						P	20.7	23.6	9.4	7.3	5.7		
1926	6.5	P					10.0*	51.8	49.4	18.0	5.9	3.4		
1927	4.0	3.0	2.2E	1.8E	1.7E	2.5E	4.4	31.7	39.2	13.2	6.4	3.7	115.8	81.6
1928	4.6						5.3	51.9	52.4	18.3	5.3	3.0		
1929	3.5	3.0					P	26.1	75.0	20.8	6.8	5.8		
1930	4.1	P					11.4*	25.6	26.7	7.4	8.4	3.6		
1931	4.8	2.8*	2.0E	1.8E	1.9E	2.4*	10.2	18.7	22.8	4.1	2.5	2.0	76.1	53.9
1932	3.3	2.8*	2.2E	1.8E	1.7E	2.5E	5.5*	36.6	43.1	9.7	3.5	1.9	114.6	90.3
1933	2.7	2.9	1.5*	1.4*	1.3*	2.2*	7.2*	15.8	64.9	9.0	3.2	3.0	115.1	90.7
1934	2.7	1.9	1.7*	1.9*	2.1*	2.6*	6.4	14.2	3.0	1.1	1.8	1.3	40.7	32.1
1935	2.1	1.6	1.4	1.6	1.6	2.0	2.7	10.8	61.3	11.3	3.5	2.4	102.3	80.6
1936	3.0	3.9	2.3	2.1	2.3	2.3	11.4	36.0	23.9	6.1	4.1	2.6	100.0	75.8
1937	3.1	3.3	1.7	1.5	1.4	2.3	6.7	26.6	24.2	8.3	3.1	2.2	84.4	66.5
1938	3.0	2.3	1.8	1.8	2.2	4.0	5.9	37.8	60.7	12.2	3.4	4.7	139.8	110.1
No. Items	28	22	20	20	20	20	23	28	29	30	30	30		
Mean	3.62	2.92	2.23	2.10	1.98	2.62	6.58	30.32	52.22	13.68	5.35	3.35	#126.97	
% Mean														
Annual	2.85	2.30	1.76	1.65	1.56	2.06	5.18	23.88	41.13	10.78	4.21	2.64	100.00	

S: June 1904 to October 1905 station was at Decker's Ranch, 3/4 mile south of present location.



NP-15E - Discharge of McIntyre Creek at Glendevey, Colorado.

Unit: 1,000 Acre-Feet										Drainage Area 19 Square Miles				Altitude 8,300A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1913									5.8	1.7	0.8	0.6			
ANNL. IN															
No. Items															
Mean															
									1	1	1	1			
									5.80	1.70	0.80	0.60	#8.90x		

NP-15F - Discharge of McIntyre Creek at Gleneyre, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 33 Square Miles			Altitude 7,980A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1904									P	4.1	1.8	1.9			
1905							0.6	6.0	15.6	3.2	1.0				
No. Items							1	1	1	2	2	1			
Mean							0.60	6.00	15.60	3.65	1.40	1.90	#29.15x		

Miscellaneous Discharges in Second-Feet

NP-13A Laramie River below Laramie-Poudre Tunnel.

1913: May 10th, 50; 18th, 40; 27th, 31 - June 1st, 50; 8th, 34; 13th, 24; 20th, 31; 28th, 18 - July 11th, 14; 17th, 21; 24th, 21; 29th, 10 - Aug. 27th, 9.6.

NP-15A West Branch of Laramie River at Mouth.

1912: June 6th, 160; 12th, 122; 21st, 14; 26th, 143; - July 3rd, 134;.

NP-15B Rawah Creek at Mouth.

1912: June 6th, 109; 12th, 102; 21st, 70; 26th, 105; - July 3rd, 92.

1913: May 10th, 17; 18th, 17; 27th, 56; - June 1st, 61; 8th, 46; 13th, 42, 20th, 51; 28th, 46; - July 1st, 46; 11th, 34; 17th, 30; 24th, 42; 29th, 26; - Aug. 1st, 9; 11th, 10; - Sept. 20th, 8.9; 27th, 9.1.







Miscellaneous Discharges in Second-Feet (Continued)

- NP-15C Nunn Creek at Mouth.  
 1912: June 5th, 206; 6th, 308; 21st, 85; 26th, 70; - July 3rd, 47.  
 1913: May 9th, 84; 18th, 55; 25th, 78; 26th, 90; 27th, 73; 28th, 73; 31st, 78; - June 1st, 73; 5th, 60; 6th, 55; 7th, 51; 8th, 47; 9th, 44; 12th, 36; 13th, 33; 14th, 33; 19th, 27; 20th, 21; 26th, 14; 27th, 9; 28th, 9; - July 6th, 14; 10th, 4; 11th, 2; 14th, 11; 16th, 2; 19th, 2; 20th, 6; 25th, 11; 29th, 6; 30th, 6; - Aug. 2nd, 6; 11th, 6.2; - Sept. 10th, 6.3; - Oct. 13th, 10.
- NP-15D Stub Creek at Mouth.  
 1912: May 27th, 25; - June 5th, 44; 6th, 41; 21st, 24; 26th, 22; - July 3rd, 20.  
 1913: May 9th, 14; 13th, 14; 23rd, 16; 27th, 16; 31st, 13; - June 1st, 13; 5th, 16; 6th, 16; 7th, 14; 8th, 14; 12th, 13; 13th, 13; 14th, 10; 19th, 10; 20th, 10; 26th, 8.7; 27th, 8.4; - July 4th, 7.4; 6th, 7.4; 10th, 8.7; 11th, 3.4; 16th, 1.4; 17th, 0.7; 20th, 0.5; 24th, 6; 25th, 0.7; 29th, 0.5; - Aug. 1st, 0.3; 9th, 0.3; 11th, 0.3; - Sept. 10th, 0.5.
- NP-15F McIntyre Creek at Gleneyre.  
 1912: May 28th, 202; - June 4th, 520; 12th, 338; 20th, 149; 25th, 268; 26th, 279; - July 2nd, 191; 5th, 181.  
 1913: May 1st, 81; 9th, 81; 19th, 128; 25th, 220; 26th, 185; 31st, 190; - June 1st, 190; 9th, 123; 12th, 107; 14th, 88; 19th, 94; 20th, 81; 27th, 56; - July 1st, 56; 10th, 39; 17th, 21; 25th, 27; 28th, 24; 29th, 16.
- NP-15G Jimmy Creek at Mouth.  
 1912: May 28th, 15; - June 4th, 19; 22nd, 7.2; 27th, 2.6; - July 5th, 10.6.
- NP-15H La Garde Creek 2 miles above Mouth.  
 1912: May 28th, 138; - June 4th, 356; 12th, 270; 20th, 119; 26th, 240; - July 2nd, 136; 5th, 159.
- NP-15I La Garde Creek at Mouth.  
 1913: May 9th, 74; 19th, 94; 25th, 109; 31st, 142; - June 2nd, 117; 7th, 80; 10th, 62; 12th, 74; 14th, 46; 15th, 67; 19th, 29; 21st, 22; 25th, 42; 27th, 15; 30th, 15; - July 10th, 3.5; 12th, 2.5; 15th, 2.5; 16th, 3.5; 18th, 3.5; 20th, 10.5; 25th, 10.5; 28th, 8.5; 30th, 6.5; 31st, 5; - Aug. 2nd, 3.5; 7th, 5; 11th, 3.5; 25th, 3.5; - Sept. 5th, 2.5; 12th, 2.5; - Oct. 14th, 8.5.
- NP-15J Forrester Creek at Mouth.  
 1913: May 28th, 5.4; - June 4th, 16; 25th, 6.8; - July 2nd, 5.7; 5th, 3.6.

THE UNIVERSITY OF CHICAGO

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1964

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# Miscellaneous Discharges in Second-Feet (Continued)

## NP-15K Grace Creek at Mouth.

1912: May 28th, 24; 30th, 55; -June 4th, 9.9; 11th, 123; 20th, 47; 25th, 32; -July 2nd, 4; 5th, 53.  
 1913: May 11th, 28; 17th, 25; 25th, 44; 29th, 58; 31st, 74; -June 5th, 48; 10th, 40;  
 12th, 32; 14th, 25; 19th, 22; 20th, 20; 21st, 14; 27th, 12; 28th, 10; -July 4th, 7.5; 8th, 4.5;  
 10th, 4.5; 12th, 3.5; 16th, 7.5; 18th, 9; 25th, 7.5; 30th, 6; 31st, 4.5;  
 Aug. 2nd, 4.5; 5th, 5th, 4.5; 7th, 4.5; 16th, 4.5; 25th, 3.5; - Sept. 12th, 3.5; - Oct. 2nd, 4.6.

## NP-15L Stuck Creek at Mouth.

1912: May 27th, 47; 29th, 69; -June 4th, 77; 20th, 25; 25th, 38; - July 2nd, 34; 5th, 32.  
 1913: May 8th, 22; 13th, 52; 17th, 30; 23rd, 78; 25th, 37; 28th, 37; -June 5th, 30; 10th, 22; 12th, 22;  
 14th, 14; 16th, 14; 19th, 14; 20th, 11; 22nd, 11; 27th, 8; 30th, 6; - July 8th, 3.2; 10th, 3.2;  
 12th, 2; 16th, 2; 19th, 4.5; 21st, 2; 25th, 2; 30th, 1; 31st, 1; - Aug. 2nd, 0.5; 7th, 0.5;  
 15th, 0.5; 24th, 0.5; - Sept. 9th, 0.3 .





TABLES OF MONTHLY DISCHARGES

South Platte River Basin

South Platte River

and

Tributaries

—

Stations in Downstream Order



SP-OA - Discharge of So. Fk. South Platte River above Tumbling Creek, Colorado

Unit: Acre-Feet		Drainage Area 17 A Square Miles										Altitude 10,000 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	
1917										P	1330	744			
1918	P														
No. Items												1	1		
Mean												1330	744	#2074x	
In State Engineers Records as "Little South Platte above Tumoling Creek".															

SP-OB - Discharge of So. Fk. South Platte River at Main Road, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 90A Square Miles										Altitude 9450± Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN	ANGL. IN
1917														
1918	P							P	9.2	5.2	2.6	1.1		
No. Items									1	1	1	1		
mean									9.20	5.20	2.60	1.10	#18.10x	
In State Engineer's record as "Little South Platte at Main Road."														





SP-1 - Discharge of So. Fk. South Platte River at Twin Bridges, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 87 A Square Miles			Altitude 9,400A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL	% MEAN
1933							0.8	7.5	13.9	7.6	3.7				
1934							1.1	1.5	5.8	4.1	4.2	2.4			
1935	1.9						2.7	15.4	15.2	14.1	7.6	4.0			
1936	3.0						0.6	3.4	19.5	13.7	23.8	6.7			
1937	5.5						0.9	2.0	2.3	2.6	1.5	0.9			
1938	0.7								5.6	2.6	2.0	3.2			
1939	2.1														
No. Items	5						5	5	6	6	6	5			
Mean	2.64						1.22	5.26	10.38	7.45	7.25	3.44	#38.34x		

Records furnished by the Denver Board of Water Commissioners.

SP-1A - Discharge of So. Fk. South Platte River at Twin Bridges, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 94A Square Miles			Altitude 9,400A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL	% MEAN
1916									P	3.8	P	P			
1917								P	9.8	5.9	3.6	1.6			
1918	P														
No. Items									1	2	1	1			
Mean									9.80	4.85	3.60	1.60	#19.85x		

1916 record in Water Supply Paper 436 "Little So. Platte near Fairplay".



SP-1B - Discharge of So. Fk. South Platte River at Intake of Antero Res., Colorado

Drainage Area Area 120 A Square Miles											Altitude 9,150A Feet			
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1916									6.5	4.6	3.4	1.3		
1917	P							P	7.3	6.3	4.0	2.4		
1918	P													
No. Items														
2 2 2 2 2 2 2 2 2 2 2 2 2														
Mean														
6.90 5.45 3.70 1.85 #17.90x														

SP-2 - Discharge of So. Fk. South Platte River below Antero Reservoir, Colorado

Drainage Area 200A Square miles												Altitude 9,000A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1933							0.3	1.0	1.9	1.8	2.2	1.2		
1934	0.7								0.9	0.6	1.2	0.8		
1935	0.6						0.2	0.5	1.3	4.5	3.8	3.3		
1936	1.5						0.9	3.6	5.9	3.7	5.6	2.2		
1937	2.4						0.7	2.2	2.1	3.0	1.9	1.5		
1938	0.9						0.5	0.8	2.9	3.0	3.1	0.8		
1939	0.6													
No. Items	6						5	5	6	6	6	6		
Mean	1.12						0.52	1.62	2.50	2.77	2.97	1.65	#13.15x	
Records furnished by the Denver Board of Water Commissioners.														

Records furnished by the Denver Board of Water Commissioners.





SP-2A - Discharge of So. Fk. South Platte River at Antero Reservoir Outlet, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 200A Square Miles					Altitude 9,000A Feet				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL	AVG. IN				
1916								2.6	5.3	3.4	2.3	8.5							
1917	9.7																		
No. Items	1							1	1	1	1	1							
Mean	9.70							2.60	5.30	3.40	2.30	8.50	#31.80x						

SP-2B - Discharge of So. Fk. South Platte River above Fourmile Creek, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 250A Square Miles					Altitude 8,250A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL		
1916								P	4.4	3.7	2.3	7.9				
1917	9.8															
No. Items	1								1	1	1	1				
Mean	9.80								4.40	3.70	2.30	7.90		#28.10x		



SP-2C - Discharge of South Platte River at Buckley's, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 550A Square Miles								Altitude 8,900A Feet					
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL	ANNL. IN
1916								P	10.7	P	P	11.0			
1917	12.6														

No. Items	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean	12.60								10.70			11.00	#34.30x		

In State Engineer's records as "South Fork of South Platte".

SP-2D - Discharge of South Platte River at Spinney, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 770A Square Miles										Altitude 8,600A Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL	ANNL. IN
1916															
1917	12.1							P	10.3	P	P	10.5			

No. Items	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean	12.10								10.30			10.50	#32.90x		

In State Engineers records as "South Fork of South Platte".





SP-3 - Discharge of South Platte River above 11 Mile Reservoir, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 840A Square Miles		Altitude 8,700A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL IN ANNUAL % MEAN
1933									9.5	7.3	4.5	3.9	
1934	1.0						0.2	5.4	4.1	3.4	4.7	2.2	
1935	1.5						0.3	0.9	7.7	15.3	11.3	6.7	
1936	3.6						2.0	10.5	17.3	13.8	25.9	7.1	
1937	5.9						1.6	6.8	6.4	9.0	4.0	2.9	
1938	2.4						1.9	1.1	12.9	10.1	9.4	13.8	
1939	5.4												
No. Items	6						5	5	6	6	6	6	
Mean	3.30						1.20	4.94	9.65	9.82	9.97	6.10	#44.98x
Records furnished by the Denver Board of Water Commissioners.													

SP-3A - Discharge of South Platte River at Idlewild, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 920A Square Miles		Altitude 8,300A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL IN ANNUAL % MEAN
1916													
1917	12.4							P	9.0	P	13.3	10.5	
No. Items	1								1	1	1	1	
Mean	12.40								9.00		13.30	10.50	#45.20x
In State Engineers record as "South Fork of South Platte".													



# SP-4 - Discharge of South Platte River near Lake George, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 929 Square Miles      Altitude 8,424 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1911	P	2.0	0.6	0.1E	0.2*	1.7	1.4	0.8	9.3	20.4	7.0	3.5		
1912	2.1	1.5	0.4*	0.1E	0.0T	0.8*	2.3	1.9	15.4	30.3	8.1	2.5	65.2	97.5
1913									9.0	13.7	16.3	14.6		
1914	3.9	2.1	1.6			4.5	10.3	17.3	36.0	37.9*	32.6	12.1		
1915	10.9*	6.0*			1.4*	1.5*	8.6*	6.8*	12.6*	8.2	13.2	6.0		
1916	11.7	2.1*		0.8*	1.0*	4.4*	3.4	5.8	9.2	13.5*	13.5	10.4		
1917	13.0	2.1*				P	P	3.5	10.0	18.1	16.5	7.2		
1918	2.0	1.3				2.6*	2.6	1.5	23.1	12.7	6.9	5.5		
1919	3.8	3.8				P	18.6	11.6	11.4	17.5	16.7	7.6		
1920	3.7	3.4					4.5	6.8	8.0	11.3	15.7	4.3		
1921	13.0	3.4				4.4	5.5	4.4	30.7	25.4	20.4	11.4		
1922	7.8	6.0					3.6	3.6	3.7	1.7	6.0	2.5		
1923	8.1	6.7	1.2	0.9	0.4	1.1	7.0	8.3	11.1	24.2	24.8	14.2	108.0	161.5
1924	9.4	6.4					12.3	7.9	10.8	12.1	8.1	1.0		
1925	1.7	1.6				P	1.6	7.3	12.7	16.7	9.2	7.4		
1926	4.4	2.4*				P	5.9	8.0	13.6	16.8	10.6	2.7		
1927	1.1	2.7	P			P	3.8	2.2	8.4	12.5	13.9	13.9		
1928	2.1	P					1.3	5.9	8.1	18.9	17.8	2.6		
1929	0.8	1.8					2.8	2.1	14.5	29.8	30.4	13.7		
1930	4.0	1.2E	0.6E	0.1E	1.7E	2.5E	2.0	2.4	7.4	8.4	24.9	17.1	72.3	108.1
1931	13.6	2.0*	0.9E	0.5E	0.3E	2.2E	4.6	2.4	4.6	2.9	2.0	0.4	36.4	54.4
1932	4.2	9.1*	0.5*	0.2E	0.3E	1.1*	6.8*	2.9	6.8	7.1	6.9	2.2	48.1	71.9
1933	1.8	0.4	0.2*	0.1E	0.1E	0.2E	1.8E	0.5*	9.8	7.2	4.4	4.0	30.5	45.6
1934	1.0	1.2	0.5	0.2E	0.1E	1.0E	0.5*	5.3	3.6	3.2	4.2	1.6	22.4	33.5
1935	1.3	1.3	0.3*	0.1*	0.1*	1.4*	9.8	1.5	7.0	14.3	11.9	5.2	54.4	51.0
1936	3.0	2.3				P	P	9.7	12.9	11.8	15.8	3.9		
1937	5.4	2.6	0.6	0.6	0.5	0.5	2.7	5.3	1.4	2.0	3.3	1.8	26.7	39.9
1938	2.0	0.9	1.1	0.9	0.9	2.2	4.4	1.2	1.3	1.7	3.0	3.0	22.6	33.3
No. Items	27	26	12	12	13	16	25	27	28	28	28	28		
Mean	5.16	2.93	0.71	0.38	0.54	2.01	5.12	5.07	11.15	14.30	13.00	6.51	#66.89	
% Mean														
Annual	7.72	4.38	1.06	0.57	0.81	3.01	7.65	7.58	16.67	21.38	19.44	9.73	100.00	





SP-5 - Discharge of South Platte River above Lake Cheesman, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 1,680 Square Miles			Altitude 6,846 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1908															
1909	2.3	2.6	0.8	0.6	0.8	2.0	12.9	6.0	17.0	25.6	9.6	2.9	143.3	129.4	
1910	15.4	7.4	5.7	4.0	1.1	16.6	8.2	13.2	9.3	9.6	29.5	43.4	103.6	93.4	
1911	3.3	3.5	1.3	0.5	0.9	3.7	4.8	2.1	9.9	30.6	10.1	3.0	72.5	65.4	
1912	3.8	2.0	0.6	0.4	0.5	1.6	6.7	7.4	30.7	40.1	25.6	7.3	126.7	114.2	
1913	5.2	6.9	1.2	0.7	0.5	0.9	11.7	6.9	14.0	16.3	13.4	16.2	98.9	89.2	
1914	6.6	3.5	1.9	1.3	1.1	2.8	13.7	22.7	39.1	43.3	45.1	17.0	198.1	178.6	
1915	11.3	5.7	2.3	1.6	1.4	2.1	8.0	9.4	20.6	14.0	16.5	7.6	98.5	88.8	
1916	13.4	3.2	2.4	2.0	1.6	8.5	6.2	11.3	9.9	14.9	23.3	12.6	109.3	98.5	
1917	14.2	2.8	1.9	1.1	1.0	1.3	10.5	12.3	23.6	30.0	23.0	9.2	130.9	118.0	
1918	2.8	2.9	1.9	1.9	1.3	5.4	6.7	8.0	43.6	24.2	11.0	9.2	118.9	107.2	
1919	6.1	4.0	1.9	1.5	1.2	1.8	27.5	23.7	17.5	23.8	23.4	11.4	143.8	129.6	
1920	5.7	3.1	1.7	1.3	2.1	3.4	6.7	16.0	18.1	18.6	24.3	8.2	109.2	98.4	
1921	15.5	4.4	1.0	0.8	0.8	5.4	11.1	19.1	64.3	47.2	34.4	19.0	221.0	199.2	
1922	11.6	5.6	3.6	1.6	0.6	6.0	10.1	11.8	8.8	3.6	9.2	3.5	76.0	68.5	
1923	8.5	6.7	1.8	1.2	0.6	1.7	11.6	18.2	19.5	37.0	37.6	23.1	167.5	151.0	
1924	12.9	10.6	3.8	2.0	1.5	3.4	21.1	17.3	28.0	18.6	8.3	1.3	135.8	122.4	
1925	3.7	2.4	0.9	0.3	0.4	3.7	3.5	9.6	15.9	17.8	14.0	11.7	83.9	75.6	
1926	8.1	4.2	1.9	0.9	0.8	3.6	15.1	19.5	26.3	22.4	14.3	4.4	121.5	109.5	
1927	2.6	2.6	2.4	1.2	0.8	4.0	10.2	6.2	13.7	16.5	18.9	17.1	96.2	86.7	
1928	4.4	2.6	1.4	0.7	0.9	3.6	3.8	12.9	17.6	22.8	19.9	5.4	96.0	86.5	
1929	3.8	3.8	1.9	1.6	1.6	3.2	6.1	5.6	16.2	31.3	46.1	23.3	144.5	130.3	



SP-5 - Discharge of South Platte River above Lake Cheesman (Continued)

Drainage Area 1,680 Square Miles														Altitude 6,846 Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL.IN	
1930	6.5	4.3	2.8	0.9	1.9	4.5	9.2	5.8	13.2	14.8	47.0	26.4	137.3	123.8	
1931	18.3						P	14.5	13.2	8.6	6.3	2.1			
1932	6.8	P					P	6.8	12.1	13.3	12.2	4.0			
1933	2.5	P					P	13.9	18.1	10.5	7.8	6.4			
1934	2.0	1.5*	0.6E	0.3E	0.4E	1.0E	2.4*	6.9	5.3	3.5	6.0	2.4	32.3	29.1	
1935	1.6	1.8				P	10.2	5.4	8.8	17.0	9.4	3.5			
1936	2.4						5.8*	19.1	26.3	20.0	39.3	8.6			
1937	9.8	6.4					6.2	9.3	5.3	5.4	5.5	3.7			
1938	2.8	P				P	10.9	8.3	12.8	7.1	8.2	14.5			
No.Items	30	25	23	23	23	23	27	30	30	30	31	31			
Mean	7.30	4.18	1.99	1.23	1.03	3.92	9.66	11.64	19.29	20.21	19.73	10.74	#110.92		
% Mean															
Annual	6.58	3.77	1.80	1.11	0.93	3.53	8.71	10.49	17.39	18.22	17.79	9.68	100.00		

Records from Oct. 1, 1924 to Sept. 30, 1938.  
Acre-feet estimates Aug. 1908 to Sept. 1924, inclusive.





SP-6 - Discharge of South Platte River below Lake Cheesman, Colorado

Drainage Area 1,766 Square Miles													Altitude 6,610 Feet	
ANNUAL IN														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1899											21.8	8.9*		
1900	5.7*	7.4*	4.3*	1.6	1.5	4.9	15.1	60.6	71.6	12.8	5.4	4.7	198.8	154.2
1901	5.2	4.1	2.0	0.9	0.8	4.1	11.8	21.0	15.5	5.7	20.8	9.9	101.8	79.0
1902	6.1	6.2	5.4	3.8	1.1	2.5	5.8	2.3	0.8	0.3	0.6	0.4	35.3	27.4
1903	0.7	1.2	0.9	0.6	0.2	2.8	6.2	2.7	20.6	7.4	4.4	4.6	52.3	40.6
1904	2.2	3.6	0.9	0.2	0.3	2.6	3.7	10.2	22.1	8.6	15.4	9.2	80.0	62.1
1905	8.9	4.0	1.4	0.6	1.0	7.6	15.2	28.5	24.7	4.6	9.2	8.2	113.9	88.4
1906	4.2	4.3	1.0	0.3	0.4	3.5	12.7	16.3	9.5	13.7	11.7	16.2	93.8	72.8
1907	18.1	12.9	5.5	3.1	3.7	7.1	9.6	15.6	29.7	45.7	26.7	9.9	187.6	145.5
1908	8.0	4.1	1.7	0.6	0.5	4.9	6.6	4.3	1.3	1.7	11.1	4.2	49.0	38.0
1909	3.5	3.3	1.2	1.0	1.1	2.6	14.6	11.1	24.3	29.3	33.8	51.6	177.4	137.6
1910	20.3	8.6	6.6	4.0	1.1	16.6	8.1	13.2	11.9*	10.9	15.3	4.9	121.5	94.3
1911	4.7	4.0	2.6	2.8	2.3	0.8	5.6	6.4	8.7	37.8	15.9	7.4	99.0	76.8
1912	2.8	2.9	4.3	3.0	3.1	1.2	0.6	0.6	24.9	43.6	28.6	13.0	128.6	99.8
1913	5.6	6.7	3.0	2.6	1.3	0.8	10.7	8.4	30.8	25.9	13.9	9.8	119.5	92.7
1914	7.6	4.7	3.9	4.0	2.5	1.4	21.8	38.6	76.0	66.3	68.8	21.3	316.9	245.8
1915	14.5	7.0	4.3	4.3	2.5	0.6	11.6	16.1	33.6	24.3	12.2	15.0	146.0	113.3
1916	8.4	5.6	4.6	3.5	2.7	6.2	7.7	15.3	23.1	26.6	25.4	7.8	136.9	106.2
1917	6.0	3.4	5.3	5.5	3.3	2.5	0.6	12.8	32.2	34.9	28.7	12.4	147.6	114.5
1918	5.4	4.0	1.2	4.8	3.7	0.5	4.6	12.7	48.3	28.6	13.2	10.3	137.3	106.5



SP-6 - Discharge of South Platte River below Lake Cheesman, Colorado (Continued)

Drainage Area 1,766 Square Miles														Altitude 6,610 Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNL. IN
1919	7.0	5.2	5.1	5.7	4.7	0.6	22.0	37.6	46.8	33.8	31.9	15.5	215.9	167.5	
1920	3.0	1.6	4.4	4.3	2.6	1.4	3.2	0.5	20.4	36.0	30.5	16.6	124.5	96.6	
1921	7.5	0.7	2.8	2.8	2.5	0.3	2.2	15.2	81.8	55.8	45.4	25.3	242.3	188.0	
1922	13.2	3.0	1.2	5.4	6.0	4.1	5.4	23.5	27.1	16.0	17.1	11.5	133.5	103.6	
1923	5.4	2.7	4.5	4.8	4.6	3.3	1.8	5.5	5.0	35.3	42.7	27.3	142.9	110.9	
1924	23.3	12.7	8.2	6.4	3.6	3.4	14.9	23.2	36.3	31.7	21.4	9.0	194.1	150.6	
1925	6.6	4.0	6.5	7.3	4.6	1.3	6.8	14.4	16.2	12.2	15.8	13.5	109.3	84.8	
1926	10.9	0.5	0.3E	0.3E	0.3E	0.2E	0.2E	19.2	37.0	29.5	21.2	5.9	125.6	97.4	
1927	4.2	6.3	1.4	1.4	2.9	3.0	4.9	9.7	14.7	25.3	15.8	9.3	98.9	76.7	
1928	9.6	5.6	1.8	3.3	3.4	3.2	3.2	10.6	25.8	24.7	20.2	10.3	121.7	94.4	
1929	10.7	4.6	3.3	4.9*	4.4*	2.9*	3.4	7.8	19.0	26.6	40.5	24.0	152.1	118.0	
1930	10.6	1.6	3.4	3.8	2.6	1.4	7.8	11.1	21.8	34.8	46.5	23.6	169.0	131.1	
1931	15.3	2.8	1.9	2.4E	2.6*	1.8	5.9	20.5	20.4	20.6	18.0	8.6	120.8	93.7	
1932	8.1	3.9	1.2*	1.8*	2.8*	1.6*	5.9	12.5	17.5	19.1	15.2	7.3	96.9	75.2	
1933	9.5	7.3	2.1*	2.0E	1.1E	1.8*	3.9	1.2	25.4	15.9	15.1	5.3	90.6	70.3	
1934	2.1	2.9	1.6	1.3*	1.2	1.8	3.1	12.2	12.6	13.3	13.0	9.3	74.4	57.7	
1935	7.0	2.5	1.1*	1.0E	0.8E	3.3*	4.2	3.7	4.6	22.6	24.7	11.9	87.4	67.8	
1936	8.5	4.5	0.7	0.4*	0.4*	0.5*	6.7	25.2	24.0	24.7	29.5	15.7	140.8	109.2	
1937	6.9	1.6	1.0	1.6	2.1	0.9	6.6	13.2	5.0	12.9	17.0	9.3	78.1	60.6	
1938	8.3	2.2	1.6	1.6	1.1	1.7	8.7	0.7	4.5	10.9	20.9	6.8	69.0	53.5	
No. Items	39	39	39	39	39	39	39	39	39	39	40	40	#128.90		
Mean	8.09	4.47	2.93	2.81	2.24	2.86	7.52	14.55	25.01	23.86	22.16	12.40			
% Mean															
Annual	6.28	3.47	2.27	2.18	1.74	2.22	5.83	11.29	19.40	18.51	17.19	9.62	100.00		

Records Aug. 1899 to May, 1910; Oct. 1924 to Sept. 1938. Acre-Foot estimates June, 1910 to Sept. 1924.





SP-7 - Discharge of South Platte River above North Fork at South Platte, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 2,160 Square Miles			Altitude 6,097 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL
1905								P	38.0	6.9	10.8	10.2			
1906	5.7	P					17.9	26.7	13.3	14.8	12.2	18.4			
1907	19.6	15.4			P	9.0	11.5	20.0	39.7	48.1	29.0	15.2			
1908	9.2	6.6	3.3	1.8E	1.7E	5.0	6.8	5.9	7.6	10.6	16.5	8.6	83.6	50.5	
1909	5.4	P	1.4	1.5E	1.2E	2.4*	3.4	8.4	32.2	29.7	36.0	67.2			
1910	19.6	10.1	7.1	8.4	5.0	21.5	16.1	25.7	16.1	12.8	19.0	7.0	168.4	101.6	
1911	7.3	5.4	3.1	4.3	3.6	3.2	7.2	9.0	11.0	40.1	15.8	9.2	119.2	71.9	
1912	4.5	3.7	5.1	4.0E	2.3*	2.5*	3.2	6.3	38.7	46.7	33.8	17.1	167.9	101.3	
1913	9.4	10.1					15.3	12.0	32.8	31.9	23.4	15.2			
1914	12.2	7.5	6.2	6.7	4.3	7.8	32.1	70.8	72.6	84.0	70.7	77.7	452.6	273.2	
1915	24.0	13.7					21.4	35.3	30.2	27.0	17.3	18.4			
1916	17.0	7.0	5.0	4.2	4.2	5.9	6.6	14.1	24.6	26.7	28.4	6.8	150.5	90.8	
1917	3.9						5.3	21.7	37.4	40.5	34.3	14.9			
1918	5.1	2.4				3.3	15.0	25.5	38.6	27.7	15.5	13.3			
1919	8.2	6.7					27.6	36.3	43.6	35.5	35.4	18.5			
1920	3.1	2.6					8.2	15.3	24.8	35.0	35.8	19.9			
1921	9.4	0.8					11.3	26.0	113.8	72.4	58.2	30.8			
1922	16.9	6.8	4.4				12.2	31.2	31.1	19.4	23.7	12.6			
1923	6.9	4.0	5.7				4.6	4.8	4.9	37.9	43.5	25.0			
1924	23.8	15.2	9.4			5.6	26.8	32.2	39.7	31.9	22.1	11.0			





SP-7 - Discharge of South Platte River above North Fork at South Platte, Colorado (Continued)

Unit: 1,000 Acre-Feet

Drainage Area 2,160 Square Miles

Altitude 6,097 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1925	9.0	5.8					9.1	16.6	17.9	15.5	20.1	16.1		
1926	11.4	2.6	1.8	2.2	2.6	3.7	6.9	32.9	46.8	32.5	25.2	8.0	176.6	106.6
1927	5.8	7.9					8.9	13.4	18.3	27.1	17.3	10.4		
1928	10.2	4.9					5.7	21.0	31.3	21.0	17.9	8.3		
1929	9.4	4.3					4.6	8.6	18.4	24.8	45.9	26.2		
1930	12.2							15.4	22.6	35.7	46.4	18.1		
1931	13.3	4.4	4.0	3.1	3.8	4.0	7.3	22.1	22.9	23.4	20.9	9.4	138.6	83.7
1932	9.0	4.3	1.5	1.8	3.5	2.6	8.8	15.5	19.0	21.5	16.6	7.5	111.6	67.4
1933	9.8	8.1	3.0	1.9	1.1	2.9	7.8	28.5	31.6	21.1	17.6	9.1	142.5	86.0
1934	4.9	4.6	3.4	2.0	2.2	2.9	6.4	13.6	13.6	13.9	15.0	7.8	82.4	55.8
1935	7.6	3.6	1.5	1.7	1.5	2.8	4.8	11.1	7.5	21.3	23.1	11.8	98.3	59.3
1936	9.8	6.1	1.4	1.3	1.3	1.7	7.2	27.2	23.7	24.9	33.6	15.7	155.9	92.9
1937	8.6	3.2	1.9	1.7	3.2	3.0	10.0	16.0	7.1	13.4	16.6	9.5	94.2	56.9
1938	9.0	3.1	1.7	2.1	1.9	3.5	14.4	19.9	15.0	12.9	25.2	16.5	125.2	75.6
No. Items	33	30	19	16	16	18	32	33	34	34	34	34		
Mean	10.34	6.03	3.73	3.04	2.71	5.18	11.08	20.88	29.01	29.08	27.14	17.46	165.68	
% Mean														
Annual	6.24	3.64	2.25	1.83	1.64	3.13	6.69	12.60	17.51	17.55	16.38	10.54	100.00	

Formerly called "South Fork of South Platte River at South Platte."

Starting April, 1913 discharge is computed. (Difference between South Platte at South Platte and North Fork of South Platte at South Platte.)



SP-8 - Discharge of South Platte River at South Platte, Colorado

Drainage Area 2,550 Square Miles													Altitude 6,078 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
														AVG. L. IN
1887										P	33.6	24.1		% MEAN
1888	18.4*	14.9E	10.1E	8.0E	8.0E	10.1*	17.1	27.2	28.3	19.1	16.2	10.6	168.0	69.3
1889	10.8*	7.1E	6.2E	4.9E	5.0E	6.8E	8.9*	29.4	27.3	19.9	12.9	7.7	146.9	54.2
1890	7.3	5.4E	4.9E	4.9E	5.0E	8.0E	11.9E	24.0	23.9	32.0	34.6	11.4	173.3	63.9
1891	10.6	5.4E	4.9E	4.9E	5.0E	9.2E	28.1*	67.6*	74.0	39.6	28.1	13.0	290.4	107.0
1892									37.4	52.1	32.9	19.5		
1893	24.1													
1896	12.0E	10.1E	6.2E	6.0	6.6	12.7	28.1	30.9	16.6	14.4	11.6	14.8	170.0	62.7
1897	13.3	10.1	6.0	5.0	4.4	6.2	22.0	61.5	62.5	40.0E	25.0E	11.9E	267.9	98.8
1899							27.0	46.5	79.9	71.4	36.1	13.9		
1900	10.6	9.5	9.8	6.3	3.1	9.7	49.2	154.0*	P					
1901				9.8E	8.3E	12.3E	23.8E	41.5*	36.8	14.8	24.3	11.3		
1902	7.1						15.5	11.1	7.6	5.2	5.0	4.9		
1903	3.8	P				P	8.6	13.0	51.2	21.7	13.8	12.6		
1904	6.9	6.9	4.0*	3.4E	3.2E	3.2	11.7	28.9	32.2	25.9	38.9	21.8	187.0	68.9
1905	18.5	2.9	P				28.0*	81.2	74.9	20.9	18.8	15.1		
1906	10.3	P		P			27.8	54.5	43.0	31.9	21.5	28.6		
1907	31.4	23.5			P	13.4	17.8	39.2	71.4	73.2	43.5	21.1		
1908	14.2	9.1	5.1	4.9E	5.2E	7.6	10.3	11.7	15.2	17.0	24.0	14.0	138.3	51.0
1909	10.8	5.4	4.4	3.7E	2.8E	4.8*	9.9	27.6	63.7	56.4	55.5	113.0	358.0	132.0
1910	40.8	17.7	11.7*	12.8*	9.6	26.9	24.7	37.0	27.6	19.2	24.9	10.2	263.1	97.0
1911	10.2	7.8	4.8	6.4*	5.3*	5.1	11.2	22.2	29.2	53.1	22.9	14.4	192.6	71.0
1912	8.8	5.6*	6.7*	5.8E	4.3E	4.6*	5.8	27.7	77.4	76.9	46.1	23.4	293.1	108.0
1913	15.1	13.0		6.6E	4.6E	5.5E	23.6	35.2	56.1	46.8	33.4	25.3		
1914	19.9	12.6	10.5	11.0	7.9	13.0	56.5	136.0	126.0	114.0	104.0	38.2	649.6	239.5





SP-8 - Discharge of South Platte River at South Platte, Colorado (Continued)

Unit: 1,000 Acre-Feet												Drainage Area 2,550 Square Miles		Altitude 6,078 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1915	31.6	18.5	10.5E	10.6E	7.1E	6.9*	32.1	59.4	70.2	43.5	28.2	25.3	343.9	126.8	
1916	24.3	12.3	9.6	7.3E	7.1E	9.0	13.1	31.1	43.7	38.1	41.1	13.7	250.4	92.3	
1917	9.4	7.9*	8.5*	8.8*	6.3*	6.2E	11.2	42.8	86.3	65.8	45.4	20.1	318.7	117.5	
1918	9.1	5.2	7.3E	7.1E	6.8E	6.0	23.1	48.7	79.7	56.4	27.2	21.2	297.8	109.8	
1919	14.1	11.5	8.6E	9.0E	7.2E	6.1E	37.8	71.9	63.7	54.4	50.5	27.8	362.6	133.7	
1920	9.8	7.0	9.3E	8.2E	6.2E	6.4	13.4	51.6	62.5	56.5	51.2	29.8	311.9	115.0	
1921	16.8	6.4	6.9*	7.3E	6.6E	9.0	24.7	68.2	181.0	107.0	83.0	44.4	561.3	206.9	
1922	25.5	12.0	7.7*	9.4*	10.3E	11.1*	18.8	49.9	55.4	32.7	36.2	20.4	289.4	106.7	
1923	11.7	7.8	8.6	8.2E	7.2E	7.6*	11.4	26.6	50.2	67.0	73.2	41.4	320.9	118.3	
1924	36.2	24.2	15.7	11.2E	8.9E	8.2E	37.1	60.6	91.6	50.0	29.3	15.5	368.5	143.2	
1925	14.0	9.4	9.5*	10.3E	8.2E	6.5*	13.0	23.6	26.0	22.0	26.9	23.6	193.0	71.1	
1926	18.8	8.3	4.7*	4.1E	4.2E	6.8	23.9	72.6	90.4	53.8	39.4	14.3	341.3	125.8	
1927	10.3	11.7	5.8*	5.8E	6.6E	9.0E	15.4	31.7	37.7	40.3	27.5	18.3	220.1	81.1	
1928	17.0	10.1	4.2E	6.5E	6.1E	8.3*	10.0	48.1	56.5	37.8	27.7	12.7	245.0	90.3	
1929	12.3	6.7	4.8E	5.8E	5.6E	6.6E	8.4	16.9	30.1	34.9	70.1	40.6	244.8	90.2	
1930	20.7	9.8*	8.4E	7.1E	7.7E	6.6E	18.0	28.8	44.0	49.3	70.7	30.2	361.3	111.1	
1931	19.9	8.3	7.4E	5.8E	6.1E	7.1E	14.0*	44.1	44.4	35.8	27.7	13.0	236.6	86.1	
1932	12.2	6.9	4.5*	3.8*	6.1*	5.3*	12.6	28.7	37.8	36.7	24.3	11.7	190.6	70.3	
1933	13.8	10.6	4.1	3.1	2.0	5.1	12.6	71.9	70.8	35.2	27.1	17.0	273.3	100.7	
1934	10.0	8.8	6.3*	4.5*	4.4*	6.3*	13.1	28.5	22.8	19.9	19.9	13.3	157.8	58.2	
1935	10.4	6.0	4.0E	3.7E	3.3E	4.9*	7.8	21.4	33.4	38.4	35.9	17.6	186.8	68.9	
1936	13.7	8.4	3.4	3.0	3.2	4.3	14.7	53.8	55.5	44.2	62.3	26.2	292.7	107.9	
1937	16.3	8.4	5.1	3.3	4.9	6.0	15.4	29.0	25.2	28.3	23.9	14.1	179.9	66.3	
1938	13.2	6.0*	4.2*	4.4*	3.9*	6.0	25.7	55.4	55.3	32.7	36.9	42.2	266.6	105.6	
No. Items	45	41	38	40	40	41	46	46	46	46	47	47			
Mean	15.47	9.74	6.96	6.57	5.86	7.91	19.45	45.11	53.83	42.31	36.03	22.04	7271.28		
% Mean															
Annual	5.70	3.59	2.57	2.42	2.16	2.92	7.17	16.63	19.84	15.60	13.28	8.12	100.00		



# SP-8A - Discharge of South Platte River at Deansbury, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 2,600 Square Miles		Altitude 5,875 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL MEAN
1887										P	33.6	24.1	
1888	18.4*	14.9E	10.1E	8.0E	8.0E	10.1*	17.1*	27.2*	28.3*	19.1	16.2	10.6	185.0 89.7
1889	10.8*	7.1E	6.2E	4.9E	5.0E	6.8E	8.9*	29.4	27.3	19.9	12.9	7.7	146.9 70.1
1890	7.3	5.4E	4.9E	4.9E	5.0E	8.0E	11.9E	24.0	23.9	32.0	34.6	11.4	173.9 82.7
1891	10.6	5.4E	4.9E	4.9E	5.0E	9.2E	28.1*	67.6*	74.0	39.6	28.1*	13.0	290.4 138.5
1896	12.0E	10.1*	6.2E	6.0	6.6	12.7	28.1	30.9	16.6	14.4	11.6	14.8	170.0 81.1
1897	13.3	10.1	6.0*	5.0	4.4	6.2	22.0	61.5	62.5	40.0E	25.0E	11.9E	287.9 127.8
No. Items	6	6	6	6	6	6	6	6	6	6	7	7	
Mean	12.07	8.83	6.38	5.62	5.67	8.83	19.35	40.10	38.77	27.50	25.14	13.32	
% Mean													
Annual	5.76	4.21	3.04	2.68	2.71	4.21	9.23	19.13	13.50	13.12	11.94	6.37	100.00

# SP-8B - Discharge of South Platte River below Intake, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 2,617A Square Miles		Altitude 5,700 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL MEAN
1926	14.6	5.0	3.2*	2.9E	2.2	4.9	24.2	76.9	91.0	50.8	32.0	11.2	315.7 100.0
No. Items	1	1	1	1	1	1	1	1	1	1	1	1	
Mean	14.60	5.00	3.20	2.90	2.20	4.90	24.20	76.90	91.00	50.80	32.00	11.20	315.70
% Mean													
Annual	4.58	1.57	1.00	0.91	0.69	1.54	7.59	24.11	28.54	15.93	10.03	3.51	100.00
2 miles above Waterton, 1 mile above Highline Ditch.													





SP-8C - Discharge of South Platte River at Platte Canon, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 2,620 Square Miles					Altitude 5,700A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1892									37.4	52.1	32.9	19.5				
1893	24.1															
1899		9.5	9.8	6.3	3.1		27.0	46.5	79.9	71.4	36.1	13.9				
1900						9.7	49.2	154.0*	P							
No. Days	2	1	1	1	1	1	2	2	2	2	2	2				
Mean	7.45	9.50	9.80	6.30	3.10	9.70	38.10	100.25	58.65	61.75	34.50	16.70	#152.70			
% M.A.	1.70	2.60	2.68	1.72	0.85	2.65	10.42	27.41	16.04	16.53	9.43	4.57	100.00			

SP-9 - Discharge of South Platte River at Waterton, Colorado

Unit: 1,000 Acre-Feet														Drainage Area 2,621 Square Miles														Altitude 5,484 Feet													
														ANNUAL IN																											
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN																											
1926								55.1	63.7	27.2	15.0	5.2																													
1927	0.8	1.4	1.7	1.8	2.0	4.0	4.0	11.3	12.4	19.9	11.0	9.7	80.0	68.6																											
1928	1.8	1.2	1.3	1.2	1.0	0.3	1.8	21.5	29.8	17.0	12.9	4.9	94.7	81.2																											
1929	2.0	1.6	1.0	0.2	0.3	0.5	0.6	6.7	16.5	22.7	48.4	15.9	116.4	99.3																											
1930	3.8	7.7	3.0*	1.0*	1.5	1.3	4.6	14.3	27.0	29.8	41.4	11.8	147.2	126.2																											
1931	4.6	3.1	2.7	1.0	1.1	2.1	5.2	19.6	26.7	17.1	11.6	1.4	96.2	82.5																											
1932	1.9	1.2	1.0	0.6	0.3	0.3	5.0	18.0	20.9	19.5	12.4	2.6	83.7	71.7																											
1933	2.6	1.9	0.8	0.0T	0.1	0.8	8.0	45.1	44.7	23.1	16.1	6.4	149.6	128.2																											
1934	4.1	3.6	2.7	0.8	1.3	1.8	4.3	15.8	10.4	7.6	9.4	3.0	64.8	55.5																											
1935	1.4	1.5	1.5	0.2	0.3	2.6	3.9	9.8	14.1	25.8	23.8	7.6	92.5	79.3																											
1936	3.2	4.6	1.2	0.3	0.1	0.9	6.9	28.7	32.8	29.7	47.8	18.2	174.4	149.5																											
1937	16.7	4.7	1.8	0.3	0.2	0.3	5.8	19.5	7.2	15.8	10.5	4.8	87.6	75.1																											
1938	3.0	1.0	1.4	0.4	0.0T	0.5	11.6	36.8	23.5	18.8	25.2	25.3	147.5	126.4																											
No. of days	12	12	12	12	12	12	12	13	13	13	13	13																													
Mean	2.80	2.75	1.55	0.65	0.65	1.02	4.14	25.55	25.36	21.00	21.26	8.98	#116.61																												
%M.A.	3.27	2.57	1.44	0.58	0.58	1.10	4.40	19.93	21.74	18.07	18.02	7.70	100.00																												





SP-10 - Discharge of South Platte River at Denver, Colorado.

Unit: 1,000 Acre-Feet Drainage Area 3,840 Square Miles Altitude 5,162 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1889								21.3	11.3	16.9	8.5	4.7		
1890	4.5								F	20.5	19.4	6.4		
1891	12.3													
1895										F	45.7	25.3		
1896	42.9	27.1	12.5	11.2	11.4	13.8	17.9	17.9	11.9	10.1	7.1	8.6	192.4	73.1
1897	6.8	6.0*	6.3E	5.8	4.6	11.0	28.0	45.2	61.3	24.1	42.2	16.1	257.4	97.7
1898	16.4	24.2	13.3	10.1	8.6	7.5	22.4	88.5	92.2	41.3	20.2	11.1	355.8	135.1
1899	9.0	7.8	6.0	3.4	10.9	25.2	27.7	26.6	48.9	38.6	32.4	17.0	253.5	96.3
1900	6.7	12.0	9.0	12.5	10.7	11.3	97.3	257.4	167.6	22.8	9.1	7.3*	623.7	236.9
1901	6.4	10.7	10.9	13.0	12.1	14.8	30.7	34.0	42.5	15.3	22.4	12.9	225.7	85.7
1902	5.7	4.3	14.4				P	P	P	P		P		
1903	4.2*	2.1*	3.7*	4.8	4.3	5.8	3.4	4.2	37.9	20.2	6.6	6.7	103.9	39.5
1904	6.6	6.6	4.8	4.4	4.1	3.9	5.2	22.0	28.7	21.6	25.1	13.9	146.9	55.8
1905	9.4	7.3	6.0	5.8	6.6	10.6	49.8	110.9	53.2	17.3	14.8	9.8	301.5	114.5
1906	6.8	6.0	4.4	4.4	4.4	6.1	12.3	39.5	20.3	19.9	18.6	19.0	141.3	61.4
1907	28.8	35.5		7.6	6.2	9.9	12.6	27.7	45.2	51.2	33.9	21.1		
1908	6.6	7.0	9.8	6.6	4.4	5.7	4.6	6.5	6.0	8.7	P			
1909								P	P	P	47.7	106.2		
1910	34.7	19.3	11.9	16.5	10.6	30.8	22.2	30.3	18.1	11.5	25.0	7.1	236.0	89.6
1911	6.8	5.4	5.5	7.6	5.3	5.0	7.3	12.7	20.4	36.6	16.5	7.8	137.0	52.0
1912	6.4	5.3	6.0	4.3	3.6	5.4	4.7	23.3	52.6	59.7	46.5	16.3	233.5	88.7
1913	13.6	15.2						28.1	41.1	25.0	16.8	14.0*		
1914	15.4*	13.4*	15.0*	21.0	19.9	31.4	114.0	177.0	117.0	92.2	143.0	25.8	784.1	297.8
1915	22.8	19.6	15.5	11.6*	10.5	15.2	88.1	71.9	72.0	21.7	26.3	22.3	399.0	151.1
1916	24.6	15.2	14.1	11.3	10.2	11.2	8.6	26.4	30.3	24.4	27.4	13.6	217.3	82.5
1917	12.6	9.6	9.1	8.5	6.6	8.1	10.5	65.8	105.0	37.1	28.9	14.8	316.6	120.2
1918	10.0	7.3	8.5	6.5	6.7	6.9	19.0	32.5	59.5	50.3	21.9	19.0	248.1	94.2
1919	15.4	13.7	11.6	10.1	7.4	9.9	35.5	73.8	52.1	42.0	51.7	23.4	346.6	131.6



SP-10 - Discharge of South Platte River at Denver, Colorado (Continued)

Unit: 1,000 Acre-Feet												Drainage Area 3,840 Square Miles		Altitude 5,162 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1920	9.2	8.6	9.6	9.0	6.7	6.0	13.9	82.4	31.1	45.5	37.3	18.7	278.0	105.6	
1921	10.0	8.9	9.0	6.2	6.4	8.3	42.7	78.1	229.0	68.9	69.5	24.2	561.2	213.1	
1922	12.1	13.1	12.1	10.4	9.2	9.8	21.5	31.6	33.1	23.1	27.7	12.6	216.3	82.1	
1923	10.1	8.8	11.6	8.8	8.4	8.8	8.6	19.7	47.6	65.2	98.4	37.8	333.8	126.8	
1924	51.4	40.0	23.3	19.9	23.8	18.0	50.5	81.2	21.0	32.7	15.1	11.1	458.0	173.2	
1925	11.9	8.9	10.5	11.4	8.3	4.9	3.9	10.3	12.3	13.6	13.8	15.6	131.4	49.9	
1926	9.3	9.8	7.5	5.8	6.6	11.2	58.8	90.4	72.6	48.1	23.3	12.4	335.8	125.1	
1927	6.2	9.8	6.9	7.1	6.6	9.2	10.9	21.7	23.5	29.0	24.0	14.7	169.6	54.4	
1928	7.6	7.3	7.4	6.3	5.6	7.4	7.7	48.4	43.6	23.3	17.5	8.9	191.0	62.5	
1929	10.1	9.2	6.8	5.2	4.1	12.8	6.7	14.4	19.2	26.0	55.2	28.7	138.4	65.3	
1930	10.3	13.9	9.7	5.6	10.7	6.5	13.3	17.1	28.0	34.0	66.4	21.1	236.6	79.8	
1931	13.9	9.6	6.8	5.5	5.8	8.1	12.6	41.9	53.3	24.8	20.1	5.8	186.3	63.7	
1932	7.1	6.7	5.5	4.2	4.6	4.4	6.8	18.0	25.8	23.2	15.6	5.9	177.8	38.5	
1933	7.4	4.9	3.4	2.6	2.2	3.3	17.2	100.0	53.4	33.0	35.6	45.2	303.2	107.0	
1934	7.0	8.2	7.7	5.6	6.7	10.1	9.5	19.4	12.4	7.0	10.1	5.0	198.5	31.2	
1935	3.8	4.8	3.7	2.0	2.1	3.6	4.7	43.8	28.8	23.2	27.2	10.7	158.4	50.2	
1936	7.5	7.8	3.8	2.9	2.8*	4.1*	8.8	35.6	37.2	30.7	58.2	20.0	219.4	73.3	
1937	21.8	9.8	6.0	2.9	3.9	4.3	11.7	19.6	29.2	17.3	10.9	8.0	145.4	45.2	
1938	8.1	5.9	5.4	3.7	2.9	4.4	26.2	91.1	40.2	25.1	33.2	57.3	303.5	105.3	
No. Items	44	42	40	40	40	40	40	42	42	43	44	44			
Mean	12.73	11.35	8.86	7.80	7.41	9.87	23.94	50.20	49.66	30.71	32.27	18.51	#263.33		
% Mean															
Annual	4.84	4.31	3.37	2.96	2.81	3.75	9.09	19.06	18.86	11.66	12.26	7.03	100.00		





SP-11 - Discharge of South Platte River at Henderson, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 4,740 Square Miles

Altitude 5,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
1926								103.0	92.8	51.1	19.6	8.5		
1927	7.1	10.9	5.8	4.4	3.6	7.0	8.6	16.9	28.9	23.2	23.7	9.6	149.7	73.9
1928	5.5	4.5	5.7	12.9	9.4	5.2	6.4	47.7	55.5	19.7	12.5	6.2	191.2	94.4
1929	6.7	4.7	3.7	2.6	2.3E	8.9*	11.1	13.1	25.8	21.5	36.6	20.1	157.1	77.6
1930	5.6	7.6	9.3	12.4	12.2*	3.4	5.3	17.0	32.7	28.3	55.7	14.6	207.6	102.5
1931	7.2	5.4	4.5	3.6*	3.4	3.6	4.2	34.8	31.3	16.9	12.5	5.5	132.9	65.6
1932	5.2	6.0	5.3	9.6	12.7	7.1	5.0	16.6	29.5	25.1	11.9	6.0	140.0	69.1
1933	5.2	2.2	3.4*	4.7*	6.1*	5.6	13.6	85.5	67.8	30.6	15.6	28.6	268.9	132.8
1934	3.6	1.7	10.0	12.5	10.7	5.2	6.4	32.3	11.0	7.3	9.2	5.4	115.3	56.9
1935	2.6	2.7	3.4	3.2	3.8	2.0	4.1	36.6	45.4	31.3	27.7	12.8	175.6	86.7
1936	6.0	4.8	7.7	8.8	4.3*	7.9*	8.2	40.0	46.6	33.1	63.7	21.0	252.1	124.5
1937	15.2	6.4	5.2	7.8	9.3	7.2	11.2	25.7	36.6	26.2	9.7	8.9	169.4	83.6
1938	5.1	5.5	4.1	4.9	9.3	5.9	22.5	101.8	72.4	34.1	33.0	53.1	351.7	173.6
No. Items	12	12	12	12	12	12	12	13	13	13	13	13		
Mean	6.25	5.20	5.68	7.28	7.26	5.75	9.18	43.92	44.33	26.80	25.49	15.41	#202.55	
% Mean														
Annual	3.09	2.57	2.80	3.59	3.58	2.84	4.53	21.68	21.89	13.23	12.59	7.61	100.00	



SP-12 - Discharge of South Platte River near Ft. Lupton, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 5,070 Square Miles				Altitude 4,900 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN			
1906								P	24.4	18.1	11.2	P					
1929							P	13.0	20.5	21.7	33.6	19.5					
1930	8.3	13.7	13.5	15.9*	16.7*	7.4	8.3	17.0	27.2	23.2	52.9	14.6	218.7	109.0			
1931	11.8	9.5	7.8	6.3	5.8	6.6	5.8	34.3	26.9	12.7	10.9	3.6	142.0	70.8			
1932	7.9	10.3	10.9	13.1	17.9	11.6	8.4	17.6	24.8	19.2	9.5	3.5	154.7	77.1			
1933	6.7	5.5	4.8*	7.3*	7.9*	7.5	16.5	79.9	57.0	27.7	17.0	29.9	267.7	133.4			
1934	5.2	4.8	13.7	16.4	13.6	7.3	7.7	24.0	9.8	3.4	3.8	3.4	113.1	56.4			
1935	2.1	2.7	5.5	5.4*	6.4*	4.8*	5.2	35.6*	35.3*	27.4	25.0	14.5	169.9	84.7			
1936	8.6	7.9	11.5	11.7	5.5*	6.3	11.0	44.7	46.4	25.5	57.2	17.9	254.2	126.7			
1937	17.4	10.2	11.2*	13.8*	13.5*	9.9	12.2	18.4	38.8	22.6	7.2	7.7	182.9	91.2			
1938	5.6	8.3	6.9	7.9	11.1	6.7	21.7	97.1	71.4	28.8	29.7	58.8	354.0	176.5			
No. Items	9	9	9	9	9	9	9	10	11	11	11	10					
Mean	8.18	8.10	9.53	10.87	10.93	7.57	10.76	38.16	34.77	20.94	23.45	17.34	#200.60				
% Mean																	
Annual	4.08	4.04	4.75	5.42	5.45	3.77	5.36	19.02	17.33	10.44	11.69	8.65	100.00				

SP-12A - Discharge of South Platte River at Platteville, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 6,000A Square Miles				Altitude 4,790A Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN			
1904																	
1905	5.7							P	P	3.2	2.1	P					
No. Items	1									1	1						
Mean	5.70									3.20	2.10		#11.00x				





SP-13 - Discharge of South Platte River near Kersey, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 9,500 Square Miles

Altitude 4,612 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1901								85.7	108.3	19.3	18.2	23.5		
1902	28.0	31.3	36.9*	36.9*	40.0*	29.9	7.3	5.9	9.4	7.6	5.2	21.6	260.0	47.2
1903	15.3	19.9	32.7	32.2	32.2	56.4	30.8	13.7	76.0	11.8	8.4	7.9	337.3	61.3
1904	13.1	23.6	27.2											
1905						14.0	139.7	387.4	243.0	9.5	10.5	9.5		
1906	23.6	31.7	20.8	30.9	25.9	36.0	47.7	74.0	21.4	22.0	8.7	28.3	371.0	67.4
1907	60.7	85.8			P	34.9	32.7*	110.0	133.5	109.0	48.6	22.4		
1908	46.7	45.7	43.5			20.8*	7.6*	10.1*	7.6	7.9	10.8	7.6		
1909	24.5	25.8					P	55.0	299.0	140.0	17.2	127.0		
1910	73.8	57.7	61.5*	62.7*	47.7	59.3	24.9	14.6	5.8	6.2	6.5	6.8	427.5	77.7
1911	21.9	25.1	20.6	28.0	20.6	18.5	7.3	5.1	8.8	12.0	7.6	6.1	181.6	33.0
1912	17.9	25.7	22.3	23.1	20.1	25.6	20.0	37.7	88.7	156.0	60.1	33.3	530.5	96.4
1913	37.6	47.5	52.4E											
1914				83.0	103.0	88.5	181.0	492.0	326.0	48.9	106.0	33.4		
1915	51.4	50.7	47.7E	38.0	39.1	41.3	118.0	213.0	161.0	25.1	27.4	23.5	836.2	151.9
1916	76.2	57.9	48.5	40.0*	51.8*	39.8	30.8	27.7	13.9	7.5	19.7	12.7*	426.5	77.5
1917	59.3*	47.1	45.3	38.1	33.3	39.2	32.1	242.0	371.0	80.6	11.1	15.8	1,014.9	184.4
1918	39.0	37.0	40.3	35.1	34.4	29.8	31.7	13.3	138.0	104.0	16.9	37.4	561.9	102.1
1919	48.9	47.5	53.2	56.4	44.2	33.1	35.4	26.2	6.8	8.4	24.8	14.8	599.7	72.6
1920	29.1	40.4		32.0	31.0	23.6	49.8	150.0	61.3	19.9	30.0	19.2		
1921	39.0	47.1	41.4	31.5	29.6	21.5	64.9	103.0	714.0	52.3	47.4	19.9	1,211.6	220.1
1922	31.4	37.4	50.5	37.1	30.7	36.7	31.7	9.3	6.3	7.0	7.9	6.6	292.8	53.2
1923	9.0	20.1	27.4	29.5	34.3	39.4	25.6	27.1	357.0	89.2	76.9	37.2	772.7	140.4
1924	23.5	136.0	73.8	75.6	70.8	75.6	193.0	186.0	399.0	14.6	10.6	21.8	1,350.3	245.3



# SP-13 - Discharge of South Platte River near Kersey, Colorado (Continued)

Drainage Area 9,500 Square Miles												Altitude 4,612 Feet		
Unit: 1,000 Acre-Feet												ANAL. IN		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1925	30.6	29.0	31.6	31.2*	33.0*	25.8	10.7	4.5	12.4	9.6	17.4	9.6	245.4	44.6
1926	35.5	42.6	38.1	31.6	32.4	27.7	152.0	181.0	199.0	67.0	12.1	12.5	351.5	151.1
1927	34.5	40.9	34.6	36.1	26.8	30.5	47.4	28.0	27.4	25.7	41.6	16.2	389.7	70.8
1928	41.7	30.0	35.1	37.5	31.5	32.4	19.3	136.0	134.0	56.8	16.8	15.6	584.7	106.2
1929	32.5	43.1	40.2	34.2	25.1	44.6	41.3	20.0	13.5	10.5	33.4	50.3	388.7	70.6
1930	29.5	50.6	45.4	34.2*	47.2	33.6	26.5	11.6	7.6	6.9	94.1	25.3	413.5	74.9
1931	45.4	34.4	33.1	28.5	21.2	28.1	23.0	31.7	24.4	7.2	8.2	8.2	293.4	53.3
1932	12.7	24.8	33.4	29.9	30.8	25.8	12.9	5.2	10.4	12.2	9.9	7.3	215.3	39.1
1933	12.0	22.5	22.5	24.3	26.9	17.3	14.0	137.0	47.7	14.4	14.0	39.8	392.4	71.3
1934	22.6	29.2	38.6	35.8	29.4	22.1	15.6	9.5	8.6	6.4	5.3	4.8	227.9	41.4
1935	5.0	5.2	15.4	12.8	10.1	10.5	4.9	53.3	77.5	8.4	8.7	26.8	238.6	43.3
1936	24.0	30.4	31.3	28.4	25.4*	22.6	17.6	14.7	38.8	8.2	32.2	12.6	286.2	52.0
1937	37.6	35.6	37.3	29.2*	32.4*	29.9	24.8	6.2	36.2	11.2	7.0	8.8	296.2	53.8
1938	9.4	20.4	28.7	27.3	28.8	23.0	33.7	107.0	69.5	19.3	11.7	164.8	543.6	98.8
No. Items	35	35	32	31	31	34	34	36	36	36	36	36		
Mean	34.65	39.42	37.85	36.49	35.15	33.46	45.76	34.43	118.41	32.96	24.50	26.03	450.21	
% Mean.														
Annual	6.29	7.16	6.88	6.63	6.39	6.08	8.31	15.34	21.51	6.17	4.51	4.73	100.00	





SP-14 - Discharge of South Platte River at Sublette, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 12,900 Square Miles      Altitude 4,490A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1926					P	P	105.0	133.0	187.0	75.0	20.5	23.2		
1927	13.5	5.7	8.6	12.7	19.3	14.8	43.2	19.1	13.7	25.8	24.1	14.3	214.8	98.0
1928	9.3	4.4	12.7	9.8	28.6	8.4	14.8	64.6	108.0	48.3	24.1	17.0	350.0	159.8
1929	16.0	4.8	12.9	31.2	29.7	13.8	39.4	25.3	23.0	13.1	25.7	35.6	270.5	123.5
1930	6.8*	8.9*	6.3	19.1	46.9	14.3	7.3	11.8	12.8	12.5	57.3	20.4	224.4	102.4
1931	7.9	4.0	4.8	4.0	5.7	21.2	12.4	21.5	22.9	10.2	10.1	9.6	134.3	61.3
1932	8.2	9.3*	4.8*	4.4	3.6	4.7	12.3	8.9	13.0	10.4	11.6	9.4	100.6	45.9
1933	11.2	4.3	4.4	3.9	4.0	9.4	9.5	35.2	44.4	16.8	11.4	23.0	177.5	81.0
1934	8.1	4.6	3.1	3.1	7.8	9.2	11.5	13.8	11.1	7.3	6.3	9.3	95.2	43.5
1935	9.5	10.0	4.5	3.3	3.3	5.3	4.7	17.4	38.9	10.6	8.9	11.6	128.0	58.4
1936	7.7	5.3	3.8	3.1	8.3	13.1	13.9	11.8	26.1	10.1	16.4	12.6	132.2	60.3
1937	16.2	4.3	3.5	3.7	3.9	21.7	20.2	11.0	27.8	18.5	8.7	9.1	148.6	67.8
1938	6.3	10.2	3.4	3.1	2.6	8.9	18.2	40.7	46.5	22.5	14.6	24.7	271.7	124.0
No. Items	12	12	12	12	12	12	13	13	13	13	13	13		
Mean	10.06	6.32	6.07	8.45	13.64	12.07	24.03	31.85	44.25	21.62	18.44	22.29	#213.02	
% Mean														
Annual	4.59	2.88	2.77	3.86	6.22	5.51	10.97	14.54	20.20	9.87	8.42	10.17	100.00	



SP-14A - Discharge of South Platte River near Orchard, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 12,260 Square Miles

Altitude 4,393 Feet

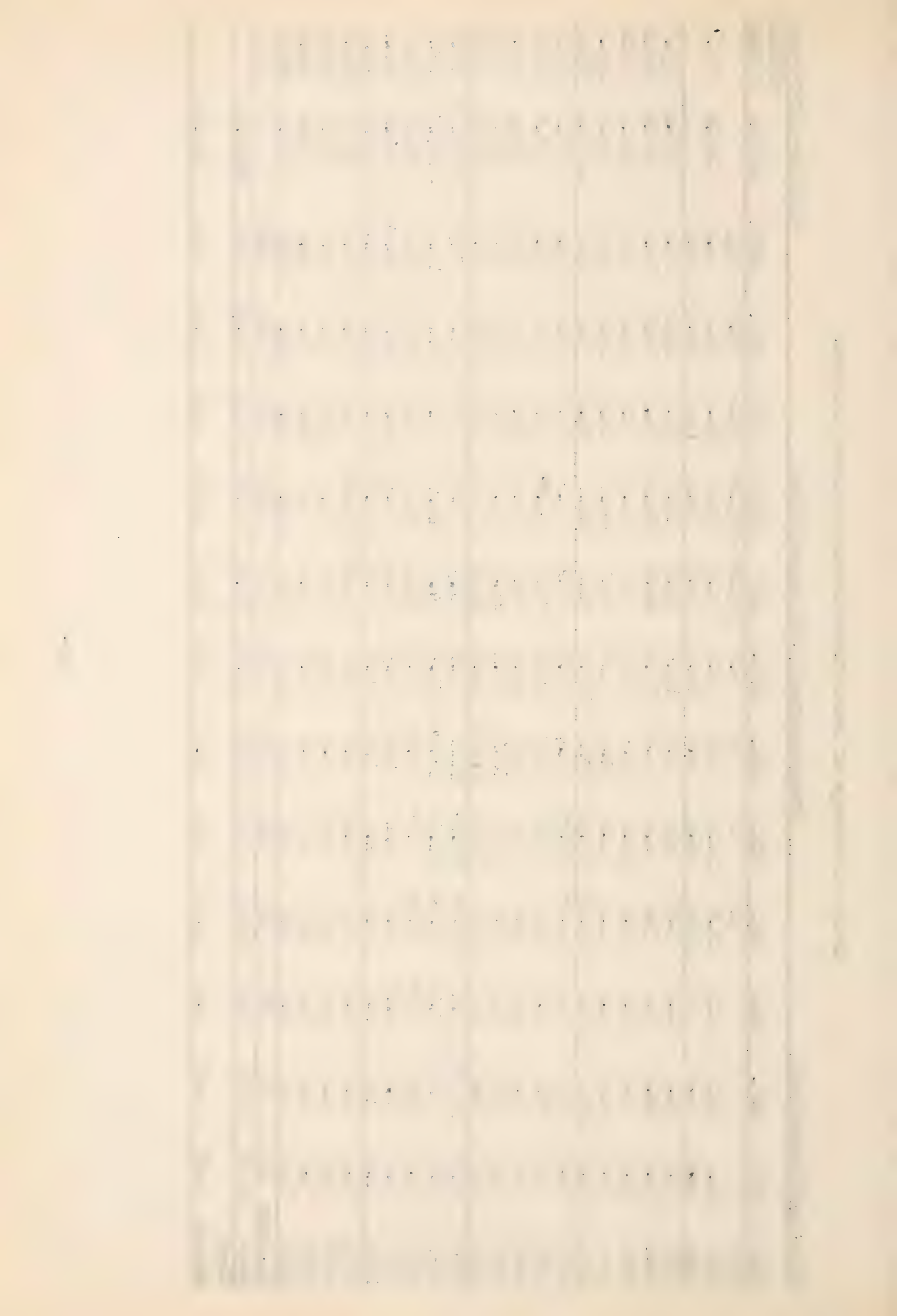
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1896		P	46.7	47.7	P	35.7								
1897				38.4	29.3*	14.1	31.5	55.2	158.1	21.4	49.6	5.5		
1898	18.7	66.1	75.8	65.6	45.0	35.3	22.6	119.7	46.2	10.6	2.5	4.1	512.2	61.5
1899	13.2	48.3	163.0	177.1	184.4	146.2	78.8	28.6	71.3	98.0	46.8	2.7	1,058.4	127.0
1900	26.4	47.5	94.9	100.5	70.4	42.0	248.7	529.8	276.0	10.5	7.0	8.5	1,462.2	175.5
1901	26.5	36.4	37.8											
1903														
1904			P	P							3.2	4.8		
1905					53.9	17.6	132.9	364.9	246.1			P		
1906	22.3	20.9	8.4	13.1	P		25.5	63.8	15.2	17.5	3.6	28.9		
1907	80.4	101.8	P											
No. Items	6	6	6	6	5	6	6	6	6	5	6	6		
Mean	31.25	53.50	71.10	73.73	76.60	48.48	90.00	193.67	135.48	31.60	18.78	9.08	#833.25	
% Mean														
Annual	3.75	6.42	8.53	8.85	9.19	5.82	10.80	23.24	16.26	3.79	2.26	1.09	100.00	





SP-15 - Discharge of South Platte River at Balzac, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 17,700 Square Miles		Altitude 4,090 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN		
1917				P	P	P	6.8	135.0*	225.0*	17.2	9.8	18.5				
1918	22.4	10.7	11.7	17.9	20.6	9.7	3.2	7.9	47.2	29.4	14.6	4.9	200.2	76.0		
1919	4.9	6.8		29.4	46.3	4.6	10.1	6.6	8.4	11.3	16.0	14.8				
1920	16.9	22.2	16.0	3.6	1.4	1.2	11.1	64.6	16.2	14.6	15.4	15.2	196.4	75.3		
1921	18.8	10.2	5.4	5.0	2.2	1.8	17.6	29.2	726.0	57.2	28.8	17.7	919.9	349.0		
1922	20.7	7.3	21.7	20.4	23.0	25.3	3.7	5.8	11.0	9.7	14.4	11.4	174.4	66.2		
1923	7.6	4.6	1.4	1.4	1.2	2.3	1.8	2.7	290.0	28.5	17.3	35.0	393.8	149.4		
1924	65.8	120.0	62.1	63.9E	67.3E	83.0	117.0	92.2	311.0	11.9	6.3	15.9	1,016.4	385.6		
1925	2.1	1.3	1.8	10.3*	13.7*	2.4	5.9	8.2	7.4	8.6	9.6	7.5	78.8	29.9		
1926	4.9	0.9	1.6	1.5	7.9	1.7	46.7	75.6	135.0*	45.6	6.6	8.2	336.2	127.6		
1927	7.0	1.3	1.6	8.0	8.0	18.8	53.9	9.6	7.6	15.9	15.2	11.4	158.3	60.1		
1928	5.0	0.8	2.3	6.6	20.6	10.1	8.1	22.4	83.3	56.0	13.2	9.0	237.4	90.1		
1929	8.7	1.6	6.0	29.2	36.9*	21.5*	36.4	34.4	8.9	8.8	12.0	27.8	232.2	83.1		
1930	4.6	14.6*	15.2	13.9*	66.1*	11.6	3.1	4.3	8.6	8.2	31.9	7.3	189.4	71.9		
1931	2.2	7.9	7.1	5.3*	11.6	16.5*	11.7	9.8	12.4	7.8	12.2	11.2	115.7	43.9		
1932	12.2	2.6	4.1*	8.6*	5.8*	1.7*	7.2	11.4	11.5	12.2	15.0	10.6	102.9	39.0		
1933	5.4	1.3	1.0	1.0	1.1	3.8	8.3	5.4	19.4	12.0	30.8	18.9*	103.4	41.1		
1934	2.3	1.2	0.6	0.8	2.8	1.8	4.6	7.6	9.0	7.9	10.0	10.4	59.0	22.4		
1935	5.1	4.8	1.5	0.8	1.0	1.5	8.1	45.0*	213.0*	6.3	7.6	10.8	307.5	116.7		
1936	5.2	0.7	0.6	0.7	0.9*	0.8	6.4	9.5	9.8	11.6	17.1	11.4	74.7	28.3		
1937	7.1	0.5	0.6	0.7	0.7	0.8	7.8	11.0	9.8	10.2	8.4	11.4	69.0	26.2		
1938	7.5	3.8	1.3	0.8	0.6	4.5	11.9	4.6	19.6	13.7	20.7	89.4	178.4	67.7		
No. Items	21	21	20	21	21	21	22	22	22	22	22	22				
Mean	11.26	10.72	8.18	10.94	16.18	10.73	17.79	27.40	99.64	18.39	15.13	17.21	#263.57			
%Mean																
Annual	4.27	4.07	3.10	4.15	6.14	4.07	6.75	10.40	37.80	6.98	5.74	6.53	100.00			



# SP-15A - Discharge of South Platte River at Ovid, Colorado

Drainage Area 20,500A Square Miles														Altitude 3,480A Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	ANNUAL IN
1922				30.9*	39.5*	42.3*	13.9	13.1	1.6	1.2	0.7	0.7			
1923	1.1	6.9	9.7	19.5*	17.3	15.9	12.7	19.2	367.0	27.4	21.6	19.0	537.3	82.4	
1924	71.9	139.0	99.0	83.0*	96.1	88.5	123.0	91.0	306.0	2.8	1.2	10.3	1,111.8	170.4	
No. Items	2	2	2	3	3	3	3	3	3	3	3	3			
Mean	36.50	72.95	54.35	44.47	50.97	48.90	49.87	41.10	244.87	10.47	7.83	10.00	#652.28		
% Mean															
Annual	5.60	11.18	8.33	6.82	7.81	7.50	7.65	6.30	34.47	1.61	1.20	1.53	100.00		

# SP-16 - Discharge of South Platte River at Julesburg, Colorado

Drainage Area 20,600 Square Miles														Altitude 3,469 Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	
1902							1.8	1.7	1.3	1.1	0.1	9.5			
1903	8.2	2.3	36.9*				17.6	2.0	0.8	0.1	2.2	0.3			
1904	0.3	2.7	20.9*	17.2E	15.0E	4.3	1.1	7.6	102.0	16.6	6.3	3.8	197.8	63.5	
1905	7.9	9.0	17.2E	18.4E	18.4E	31.6	94.6	374.0	334.0	15.2	45.7	3.1	969.1	311.2	
1906	5.5	22.0	27.7E	36.9E	50.0*	111.0*	38.4	19.8	3.6	3.2	2.7	3.9	324.7	104.3	
1907	42.7	95.2*													
1908								4.0*	2.3	2.8	3.2	3.1			
1909	4.0E	8.4	11.1E	14.8E	16.7*	40.0*	64.3	28.0	163.0	83.6	9.5	102.0	545.4	175.1	
1910	65.8	65.5*	49.2*	52.3E	55.5*	56.0	16.4	2.8	0.6	0.4	1.0	1.0	366.5	117.7	
1911	1.3	1.0	11.9	42.4	19.1	8.6	1.6	1.6	1.0	0.5	3.0	0.9	92.9	29.8	
1912	1.4	1.6	1.2	6.9	16.1	21.2	16.8	F	1.5	3.5	34.8	26.0			
1913	22.5	20.4					57.1*	13.1	0.7	0.9	1.3	1.3			
1914	1.3	3.1					P	363.0	265.0	11.7	14.4	26.5			





SP-16 - Discharge of South Platte River at Julesburg, Colorado (Continued)

Unit: 1,000 Acre-Feet										Drainage Area 20,600 Square Miles			Altitude 3,469 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1915	20.7	46.6				P	73.8	189.0	141.0	7.1	15.2	8.8			
1916	48.0	58.4	60.2		P	24.8	3.6	4.6	3.0	1.6	1.8	2.1			
1917	6.8	11.8		18.3	36.7	31.7	25.7	109.0	281.0	32.0	2.1	4.5			
1918	33.3	23.4	29.9	P		P	8.5	6.9	7.7	21.7	17.6	12.5			
1919	29.6	26.4	31.1			32.1	30.7	18.2	2.8	1.4	1.2	8.8			
1920	31.9	P		16.8*	14.3*	21.0	42.0	89.2	19.1	5.6	4.2	21.6			
1921	21.3	17.1	18.0*	13.4	10.1	12.2	15.2	17.4	631.0	21.6	3.3	7.0	757.6	252.9	
1922	32.0	31.4	29.9												
1925	17.2	22.6	20.2*	20.9E	32.2E	23.6*	6.8*	2.1*	2.7*	1.5	1.5	2.0	153.3	49.2	
1926	7.2	20.0	24.0	30.7	26.5	16.6	24.9	76.9	114.0	41.1	6.8	6.2	394.9	126.8	
1927	24.6	23.4	22.4	25.9	25.3	42.6	78.0	21.5	9.9	1.9	13.4	4.4	293.3	94.2	
1928	22.0	21.7	21.1	23.7	24.4	25.5	3.9	14.9	90.4	50.4	14.6	1.7	316.3	101.6	
1929	13.6	25.7	24.2	35.7*	47.2*	53.5*	53.1	46.5	2.0	2.0	1.2	16.5	321.0	103.1	
1930	7.8	27.2	34.6	20.5	103.0	39.8	10.6	24.1	4.0	2.7	25.9	6.1	306.3	98.3	
1931	24.7	24.0	33.3	23.7	24.6	34.9	39.3	4.3	2.6	2.2	1.5	1.6	216.7	69.6	
1932	3.8	6.1	16.7	28.5	25.9	15.2	6.3	5.7	2.2	1.6	2.1	1.3	115.4	37.1	
1933	2.3	6.2	7.5	15.2	20.0	16.1	3.2	18.9	3.0	3.5	6.0	14.8	116.7	37.5	
1934	9.5	11.1	18.6	19.2	11.6	14.9	4.5	5.6	16.8	2.2	1.2	1.8	117.0	37.6	
1935	2.8	2.8	8.0	9.8	4.4	6.9	3.4	47.3	192.6	3.7	1.6	2.8	286.1	91.9	
1936	5.0	5.8	14.8	16.6	18.9	8.6	4.2	3.0	3.3	1.2	4.4	2.1	87.9	28.2	
1937	3.9	4.9	6.9	8.9	19.2	12.7	5.4	2.4	3.4	1.6	1.7	1.7	72.7	23.3	
1938	2.8	5.1	8.1	10.1	16.4	5.0	5.1	13.5	11.2	4.0	2.7	81.2	165.2	53.0	
No. Items	33	32	27	24	24	26	31	32	33	33	33	33			
Mean	16.11	20.40	22.43	21.95	27.15	27.32	24.45	48.10	73.52	10.61	7.76	11.85	#211.45		
% Mean															
Annual	5.17	6.55	7.20	7.05	8.72	8.77	7.85	15.44	23.54	3.41	2.49	3.81	100.00		



SP-16A - Discharge of Twelve Mile Creek at Redford's Ranch, Colorado

Unit: Acre-Feet		Drainage Area 12A Square Miles										Altitude 10,000A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1917								P	3410	2810	830	290		
1918	P													
No. Items									1	1	1	1		
Mean									3410.0	2810.0	830.0	290.0	#7340.0x	

SP-16B - Discharge of Buffalo Springs Branch at 63 Ranch, Colorado

Unit: Acre-Feet		Drainage Area 3 A Square Miles										Altitude 9,380A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1917								230E	223E	230E	230E	223E		
No.Items								1	1	1	1	1		
Mean								230.0	223.0	230.0	230.0	223.0	#1136.0x	

SP-16C - Discharge of Salt Creek near Hartsel, Colorado

Unit: Acre-Feet		Drainage Area 32A Square Miles										Altitude 9,150A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1917								P	299	269				
No.Items									1	1				
Mean.									299.0	269.0			#568.0x	





SP-16D - Discharge of Poney Creek at Hartsel, Colorado

Unit: Acre-Feet										Drainage Area 12A Square Miles				Altitude 9,150A Feet	
														ANNUAL IN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1917								P	132	138	98	95			
1918	98														
No. Items	1								1	1	1	1			
Me.n.	98.0								132.0	138.0	98.0	95.0	#561.0x		

SP-16E - Discharge of Middle Fork of South Platte River at Alma, Colorado

Unit: 1,000 Acre-Feet												Drainage Area 23.7 Square Miles		Altitude 10,285 Feet	
														ANNUAL IN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1916								1.4	4.3	2.1	P				
No. Items								1	1	1					
Mean								1.40	4.30	2.10			47.80x		

SP-16F - Discharge of Middle Fork of South Platte River at Fairplay, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 82.3 Square Miles				Altitude 9,900 Feet	
														ANNUAL IN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1916								6.1	17.0	12.4	10.0	4.1			
1917	3.0							P	17.0	14.0	4.9	2.0			
1918	P														
No. Items	1							1	2	2	2	2			
Mean	3.00							6.10	17.00	13.20	7.45	3.05	449.80x		



SP-17 - Discharge of Middle Fork of So. Platte River below Fairplay, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 110A Square Miles				Altitude 9,490A Feet			
										ANNUAL % MEAN				ANNUAL % MEAN			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.					
1933									10.5	5.3	2.3	1.7					
1934	0.9						0.8	7.8	6.2	4.0	3.8	2.0					
1935	1.2						0.3	0.8	15.8	11.3	5.0	3.3					
1936	2.5						2.1	11.7	17.9	11.3	13.0	3.8					
1937	2.5						1.4	6.3	9.0	7.0	3.3	2.4					
1938	1.6						1.2	3.4	23.6	11.7	5.3	10.0					
1939	3.3																
No. Items	6						5	5	6	6	6	6					
Mean	2.00						1.16	6.00	13.83	8.43	5.45	3.87	#40.74x				
Records furnished by the Denver Board of Water Commissioners.																	

SP-18 - Discharge of Middle Fork of So. Platte River near Hartsel, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 225A Square Miles				Altitude 8,980A Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN			
1933									7.5	4.3	2.2	1.5					
1934	0.6						0.2	4.4	3.7	2.9	3.4	1.5					
1935	1.1						0.8	0.2	7.4	7.8	4.1	2.0					
1936	1.3						1.5	7.9	11.9	8.9	16.6	4.1					
1937	3.2						1.6	4.9	5.1	5.5	2.5	1.8					
1938	1.5						1.3	0.8	11.3	7.4	5.3	10.6					
1939	4.0																
No. Items	6						5	5	6	6	6	6					
Mean	1.95						1.08	3.64	7.82	6.13	5.68	3.58	#29.88x				
Records furnished by the Denver Board of Water Commissioners.																	



These figures are not used in the present report

TABLE 1

Summary of results

Continued

1910	1911	1912	1913	1914
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100

100

50-100 = Diameter of circle for 100 ft. of water

1910	1911	1912	1913	1914
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100

100

These figures are not used in the present report

SP-18A - Discharge of Middle Fork of So. Platte River at Mouth, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 225A Square Miles										Altitude 8,900A Feet			
YEAR		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1916															
1917		1.6							P	P	P	P	2.3		
No. Items		1											1		
Mean		1.60											2.30	#3.90x	

SP-18B - Discharge of Beaver Creek above Fairplay, Colorado

Unit: Acre-Feet		Drainage Area 13A Square Miles										Altitude 9,900A Feet			
YEAR		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1917															
1918	P										P	218	45		
No. Items												1	1		
Mean												218.0	45.0	#263.0x	



SP-19 - Discharge of 4 Mile Creek at Nelson's Ranch, Colorado

Unit: Acre-Feet												Drainage Area 38A Square Miles		Altitude 2,490A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN	
1933									760	805	190	68			
1934	8						102	836	574	290	340	192			
1935	122						80	230	1988	1106	636	406			
1936	362						150	954	1590	1332	1950	726			
1937	534						102	1226	1058	926	402	252			
1938	218						294	612	1920	1684	816	2010			
1939	822														
No. Items	6						5	5	6	6	6	6			
Mean	344.3						145.6	771.6	1315.0	1023.8	722.3	602.0	#4931.6x		

Records furnished by the Denver Board of Water Commissioners.

SP-20 - Discharge of 4 Mile Creek at Mouth, Colorado

Unit: Acre-Feet													Drainage Area 42A Square Miles		Altitude 8,990A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN	% MEAN	
1933									2238	1360	368	288				
1934	142						54	932	288	76	256	130				
1935	132						62	480	1024	2798	854	518				
1936	578						60	1718	2126	1558	2570	670				
1937	650						232	784	856	922	274	218				
1938	244						78	172	1734	1676	826	1972				
1939	1004															
No. Item	6						5	5	6	6	6	6				
Mean	458.3						97.2	817.2	1377.7	1398.3	858.0	632.7	#5639.4x			
Records furnished by the Denver Board of Water Commissioners.																

Records furnished by the Denver Board of Water Commissioners.





SP-21 - Discharge of Tarryall Creek above Como, Colorado

Unit: Acre-Feet

Drainage Area 37A Square Miles

Altitude 10,000A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1934							362	2984	1874	880	916	682		
1935	620						312	764	2540	2172	1394	842		
1936	632						914	4612	4434	2234	3150	1122		
1937	698						350	1958	2518	1632	788	612		
1938	450						406	1886	5712	2438	1252	2350		
1939	1120													
No. Items	5						5	5	5	5	5	5		
Mean	704.0						468.8	2440.8	3415.6	1871.2	1500.0	1121.6	#11,522.0x	
Records furnished by the Denver Board of Water Commissioners.														

SP-21B - Discharge of Tarryall Creek near Jefferson, Colorado

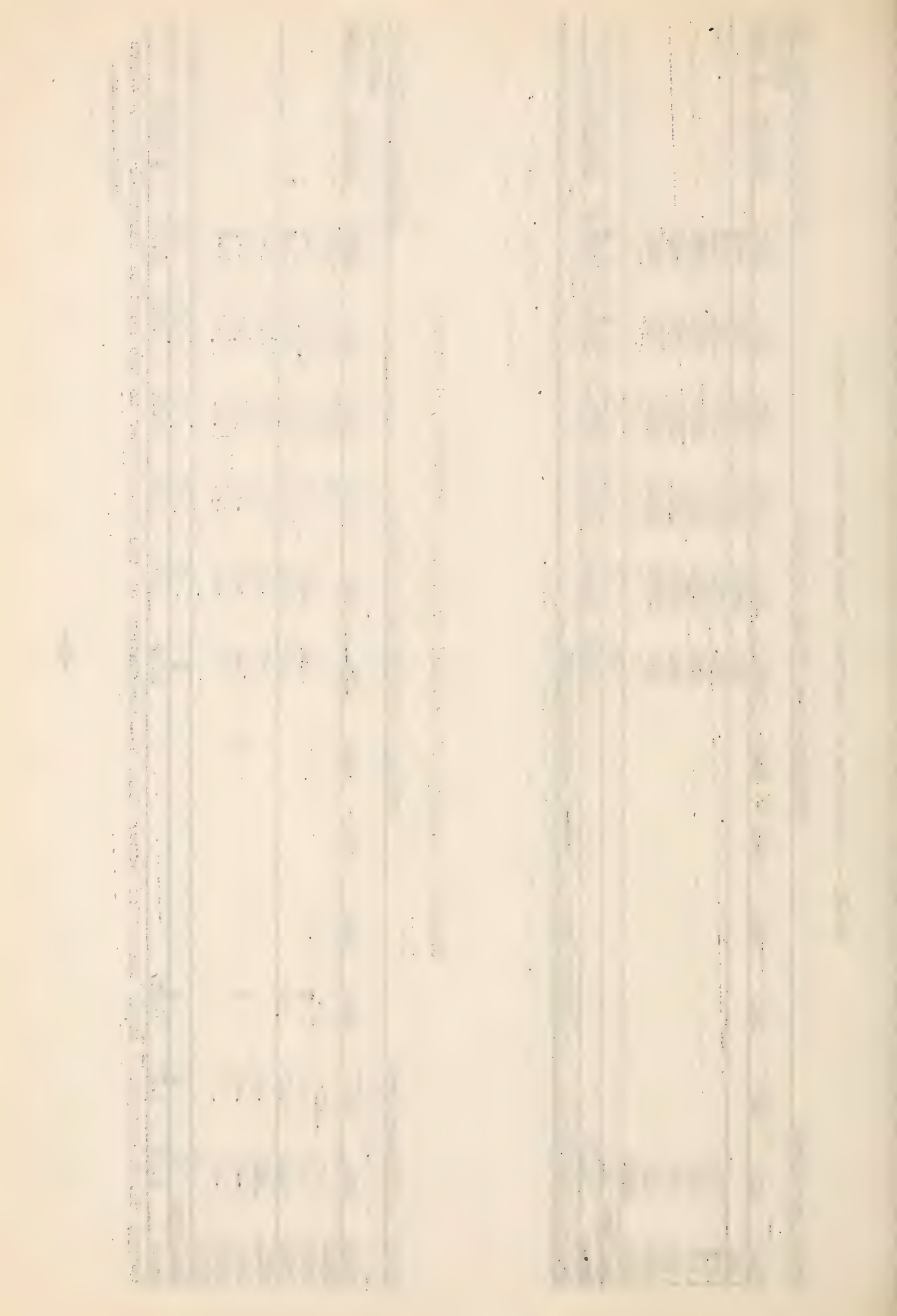
Unit: 1,000 Acre-Feet

Drainage Area 223 Square Miles

Altitude 9,500 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1912									F	11.9	5.4	2.6		
1913	1.9	1.4	1.0				P	2.6	8.9	4.7	2.8	3.0		
1914	2.2	1.7	P				6.7	10.3	12.7	12.9	8.3	2.3		
1915	2.0	1.4					P	2.1	7.3	2.6	2.4	1.8		
1916	1.8	1.3	P			P	1.4	1.5	2.7	3.8	5.4	1.9		
1917	1.7	P					P	3.5	8.3	13.3	6.9	1.2		
1918	P													
No. Items	5	4	1				2	5	5	6	6	6		
Mean	1.92	1.45	1.00				4.02	4.00	7.98	8.20	5.20	2.13	#35.90	

Boreas ditch diverts a small amount of water from the headwaters of the Blue River to the head of Tarryall Creek above this station.



# SP-22 - Discharge of Tarryall Creek below Rock Creek, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 242A Square Miles					Altitude 9,200A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN			
1934							P	3.0	1.8	1.1	1.8	1.0					
1935	0.8						0.3	0.9	1.6	5.5	3.2	2.0					
1936	1.4						P	6.7	10.2	7.0	13.2	2.8					
1937	2.3						0.8	3.4	3.2	3.4	1.8	1.3					
1938	1.0						1.3	2.1	10.1	4.1	4.2	6.5					
1939	3.7																
No. Items	5						3	5	5	5	5	5					
Mean	1.84						0.80	3.22	5.38	4.24	4.84	2.72	423.02x				

Records furnished by the Denver Board of Water Commissioners.





# SP-23 - Discharge of Tarryall Creek at Mouth near Lake George, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 460 Square Miles					Altitude 8,500 A Feet				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN					
1916																			
1917	P																		
1925							1.6	2.6	2.9	1.7	4.0	3.6							
1926	3.7E	1.8E					7.7E	10.5E	11.9*	9.5	4.7	1.4							
1927	1.1	1.1				P	7.6	4.4	6.2	4.2	5.0	2.0							
1928	2.2	P					1.9	6.1	8.7	5.1	3.5	2.5							
1929	0.9	1.2					2.7	1.1	1.6	4.6	10.9	6.2							
1930	2.4						4.9*	2.8	5.8	6.8	14.4	4.7							
1931	3.2						2.6*	5.8	5.9	2.8	1.9	1.0							
1932	0.8	1.0*					2.5*	2.6	4.5	4.1	3.6	1.2							
1933	1.3	1.8					P	8.3	8.9	4.0	3.6	2.4							
1934	1.0	1.1	P				1.8	2.5	1.6	0.8	1.6	0.8							
1935	0.8	0.6					1.2	1.9	1.8	5.2	4.4	2.2							
1936	1.6	1.6					3.2	6.0	9.8	5.6	16.1	2.8							
1937	2.2	2.1	P				P	3.2	2.8	3.1	1.9	1.3							
1938	1.1	P					3.4	3.4	9.8	4.1	4.4	7.5							
No. Items	13	9					12	14	14	14	14	14							
Mean	1.72	1.37					3.42	4.37	5.87	4.40	5.71	2.83	#29.69x						

1910-12 Record - Miscellaneous Discharges only. See Station SP-22A Tarryall Creek near Hayman.



SP-24 - Discharge of Michigan Creek above Jefferson, Colorado

Unit: Acre-Feet		Drainage Area 19A Square Miles										Altitude 9,990A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1934							60	922	656	336	682	356		
1935	132						52	150	1054	838	646	542		
1936	406						300	1592	2212	1056	1854	664		
1937	498						322	998	810	446	306	330		
1938	380						484	563	2798	996	1064	1736		
1939	824													
No. Items	5						5	5	5	5	5	5		
Mean.	448.0						243.6	845.0	1506.0	734.4	910.0	725.6	#5412.6x	
Records furnished by the Denver Board of Water Commissioners.														

SP-25 - Discharge of Jefferson Creek above Jefferson, Colorado

Unit: Acre-Feet		Drainage Area 12A Square Miles										Altitude 9,990A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1934							244	1526	1640	974	352	134		
1935	120						114	520	2292	2484	952	460		
1936	372						600	2626	3654	1982	2410	576		
1937	370						150	1366	2232	1870	782	356		
1938	338						238	1206	3566	3386	1254	1004		
1939	606													
No. Items	5						5	5	5	5	5	5		
Mean	361.2						269.2	1448.8	2676.8	2139.2	1150.0	506.0	#8551.2x	
Records furnished by the Denver Board of Water Commissioners.														





SP-25B - Discharge of Rock Creek near Jefferson, Colorado

Unit: Acre-Feet										Drainage Area 44 Square Miles			Altitude 8,800A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL
1916									89*	208	P				
No. Items															
Mean															
									1	1					
									89.0	208.0					#297.0x

SP-26 - Discharge of Goose Creek at Lake Cheesman, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 86 Square Miles			Altitude 6,835 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL
1899											2.1	0.8*			
1900	0.6*	0.6*	0.5*												
1908											1.5	1.2			
1909	1.2	0.7	0.3	0.4	0.4	0.6	1.7	5.2	7.3	3.7	4.4	8.2	34.1	131.4	
1910	5.0	1.2	0.8	0.7	0.3	1.9	2.3	3.0	1.8	1.2	1.6	0.7	20.5	79.0	
1911	0.7	0.7	0.4	0.2	0.2	0.9	0.9	0.8	1.3	2.2	1.6	1.1	11.0	42.4	
1912	0.9	0.6	0.2	0.2	0.2	0.3	1.3	4.2	2.9	2.6	2.6	1.4	17.4	67.0	
1913	1.1	1.1	0.3	0.1	0.1	0.3	4.3	1.6	5.4	3.6	3.0	1.8	22.7	87.4	
1914	1.8	1.2	0.9	0.6	0.6	2.0	8.9	16.0	21.1	23.1	23.7	4.3	104.2	401.4	
1915	2.1	1.1	0.7	0.5	0.7	1.4	5.4	6.6	13.0	4.2	4.0	2.4	42.1	162.2	
1916	2.7	1.4	1.5	0.8	0.7	2.0	1.5	3.9	2.8	1.5	1.8	1.1	21.7	83.6	
1917	1.0	0.8	0.8	0.4	0.3	0.5	1.7	3.6	8.5	4.8	2.4	1.5	26.3	101.3	
1918	0.9	0.7	0.7	0.5	0.4	1.1	1.8	4.8	5.0	4.0	2.2	1.1	23.2	89.4	
1919	1.0	0.9	0.7	0.6	0.4	0.6	2.8	6.6	4.6	3.0	2.6	1.3	25.1	96.7	
1920	1.1	0.8	0.6	0.4	0.7	0.9	0.9	5.4	5.4	2.3	3.1	1.8	23.4	90.1	
1921	1.6	1.0	0.4	0.4	0.4	1.8	3.0	9.3	17.7	8.2	7.6	3.0	54.4	209.6	
1922	1.7	1.1	0.9	0.6	0.3	0.8	1.5	4.3	3.4	2.0	2.0	0.9	19.5	75.1	
1923	0.7	0.7	0.6	0.5	0.3	0.6	1.2	4.6	5.4	4.3	5.3	4.1	28.3	109.0	
1924	3.4	1.9	1.0	0.8	0.6	0.9	1.2	6.3	7.9	2.6	1.0	0.6	28.2	106.6	



SP-26 - Discharge of Goose Creek at Lake Cheesman, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 86 Square Miles			Altitude 6,835 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ACTUAL	ADJ. IN	% MEAN
1925	0.9	0.7	0.4	0.1	0.2	0.8	0.8	0.7	0.5	1.0	2.8	1.9	10.8	41.6	
1926	1.3	0.8	0.6	0.4	0.4	0.7	2.9	12.1	8.6	3.6	1.7	0.7	33.8	130.2	
1927	0.6	0.6	0.5	0.3	0.2	0.7	1.9	2.6	1.6	0.9	1.2	0.8	11.9	45.8	
1928	0.8	0.6	0.3	0.3	0.4	1.1	1.4	6.0	5.3	2.1	1.5	0.6	20.4	78.6	
1929	0.7	0.5	0.5	0.4	0.4	0.8	1.3	2.6	1.2	1.1	2.7	2.2	18.5	71.3	
1930	1.5	0.7	0.4	0.3	0.3	0.7	2.4	2.9	2.7	2.7	8.3	2.4	25.3	97.5	
1931	1.4*	P					P	5.2	4.0	2.0	1.3	0.7			
1932	0.7						P	2.1	1.1	0.8	1.1	0.7			
1933	0.9*							9.8*	8.5	3.0	1.9	2.1			
1934	1.2	P					2.3*	2.7	1.4	0.9	1.0	0.7			
1935	0.6	0.7*				P	1.0	4.0	4.6	2.5	2.4	1.5			
1936	1.2	0.8	0.3	0.2	0.2	0.5	1.7	3.0	2.9	2.2	4.4	1.7	19.1	73.6	
1937	1.6	P					1.6	1.7	1.9	2.4	1.4	1.0			
1938	0.9	P				P	3.2	8.2	6.0	3.3	3.1	5.4			
No. Items	31	25	24	23	23	23	27	30	30	30	32	32			
Mean	1.35	0.88	0.60	0.42	0.38	0.88	2.26	4.99	5.46	3.39	3.45	1.90	25.96		
% Mean															
Annual	5.20	3.39	2.31	1.62	1.46	3.39	8.71	19.22	21.03	13.06	13.29	7.32	100.00		

Records available 1899; Oct., 1924 to Sept., 1938.  
Acre-foot estimates Aug., 1908 to Sept., 1924.





# SP-26A - Discharge of North Fork of South Platte River at Grant, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 51 Square Miles      Altitude 8,566 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1910										P	0.7	0.6		
1911	0.7	0.5*	0.4E	0.4E	0.4E	0.4E	0.8	4.1	4.3	2.3	1.1	0.8	16.2	72.6
1912	0.9	0.2E		0.4*	0.3E	0.4*	0.7	3.7	7.9	6.2	2.8	1.5		
1913	1.3	1.1					P	3.6	4.6	2.7	1.4	1.3		
1914	1.5	1.1	0.4	0.4	0.3	1.1	2.2	11.0	11.0	6.2	4.5	1.7	41.4	185.6
1915	1.2	0.9					0.9	2.8	5.0	2.7	1.4	0.8		
1916	0.7	P		P	P	P	1.0	3.1	4.0	2.1	1.6	0.7		
1917	0.5	P	P	P	P		0.7	2.8	9.2	5.1	1.8	0.7		
1918	0.5	0.6	0.5*											
No. Items	8	6	3	3	3	3	6	7	7	7	8	8		
Mean	0.91	0.73	0.43	0.40	0.33	0.63	1.05	4.44	6.57	3.90	1.91	1.01	#22.31	
% Mean														
Annual	4.08	3.27	1.93	1.79	1.48	2.82	4.71	19.90	29.45	17.48	8.56	4.53	100.00	

# SP-26B - Discharge of North Fork of South Platte River at Casells, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 128 Square Miles      Altitude 8,500A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1908														
1909	3.1	P		1.0	0.7	0.7	2.1	8.6	27.1	4.2	4.0	15.8		
1910	6.5	4.5	2.5	2.2	1.5	2.3	3.7	7.7	9.0	3.9	2.2	1.9	47.9	73.3
1911	1.8	1.5		1.5	1.4	1.0	1.7	8.6	13.2	12.5	5.3	3.2		
1912	2.4	1.5	1.0	0.8	0.8	1.4	2.1	9.9	24.5	18.2	6.5	4.0	73.1	115.0
1913	P						P	9.8	12.6	8.7	5.3	5.1		
1914	3.9	2.7												
No. Items	5	4	2	4	4	4	4	5	5	6	6	5		
Mean	3.54	2.55	1.75	1.38	1.10	1.35	2.40	8.92	17.28	11.50	5.82	6.00	#63.59	
% Mean														
Annual	5.57	4.01	2.75	2.17	1.73	2.12	3.77	14.03	27.17	18.09	9.15	9.44	100.00	



SP-27 - Discharge of North Fork of South Platte River at South Platte, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 484 Square Miles										Altitude 6,091 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN
1909									F	32.6	23.0	40.8	ANNUAL
1910	18.1	7.4	4.7*	4.9E	3.4E	4.9*	8.4	15.0	13.0	8.3	5.2	3.4	96.7 76.0
1913				P		P	8.3	23.2	23.3	14.9	10.0	10.1	
1914	7.7	5.1	4.3	4.3	3.7	5.2	24.4	65.2	53.4	30.0	33.3	10.5	247.1 194.3
1915	7.6	4.8					10.7	24.1	40.0	15.5	10.9	6.9	
1916	7.3	5.3	4.6*	3.0E	2.9E	3.1*	6.6	17.0	19.1	11.4	12.7	6.9	
1917	5.5	P	P	P	P	P	5.9	21.1	48.9	25.3	11.1	5.2	
1918	4.0	2.8	P			2.7*	8.1	23.2	41.1	28.7	11.7	7.9	
1919	5.9	4.8				P	10.2	35.6	20.1	18.9	15.1	9.3	
1920	6.7	4.5				P	5.2	36.3	37.7	21.5	15.4	9.9	
1921	7.4	5.6	P	P		P	13.4	42.2	67.2	34.6	24.8	13.6	
1922	8.6	5.2	3.3	P		P	6.6	18.7	24.3	13.3	12.5	7.8	
1923	4.8	3.8	2.8			P	6.8	21.8	45.3	29.1	29.7	16.4	
1924	12.4	9.0	6.3*			2.7*	10.3	28.4	51.9	18.1	7.2	4.5	
1925	5.0	3.6	P			P	3.9	7.0	8.1	6.5	6.8	7.5	
1926	7.4	5.7	3.0*	1.9E	1.6E	3.1	17.0	39.7	43.6	21.3	14.2	6.2	164.7 129.5
1927	4.5	3.8	P				6.5	18.3	19.4	13.2	10.2	7.9	
1928	6.8	5.2				P	4.3	27.1	25.2	16.8	9.8	4.4	
1929	2.9	2.4					3.9*	10.3	11.7	10.1	24.2	14.4	
1930	8.5	P					F	13.4	21.4	13.6	24.3	12.1	
1931	6.6	4.0*	3.4E	2.8E	2.3E	3.1E	6.7*	22.0	21.5	12.4	6.8	3.6	95.2 74.9
1932	3.2	2.6	3.0E	2.0E	2.6E	2.8E	3.8	13.2	18.8	15.2	7.7	4.2	79.1 62.2
1933	4.0	2.5	1.1E	1.2E	0.9E	2.2E	4.8	43.4	39.2	14.1	9.5	7.9	130.8 102.8
1934	5.1	4.2	2.9*	2.5E	2.2E	3.4*	6.7	14.9	9.2	6.0	4.9	3.4	65.4 51.4
1935	2.8	2.3*	2.5E	2.0E	1.8E	2.1*	3.0	10.2	25.9	17.0	12.8	5.9	88.3 69.4
1936	3.9	2.3	2.0E	1.7E	1.9E	2.6*	7.5	26.5	31.9	19.3	28.7	10.4	138.7 109.1
1937	7.6	5.2	3.2	1.6	1.7	3.0	5.4	13.0	18.1	14.8	7.3	4.6	85.5 67.2
1938	4.2	2.9	2.5	2.3	2.0	2.5	11.3	35.5	40.4	19.7	11.7	26.4	141.4 126.9
No. Items	26	24	15	12	12	14	26	27	27	28	28	28	
Mean	6.48	4.38	3.31	2.52	2.25	3.10	8.07	24.68	30.36	17.97	14.34	9.72	#157.18
% M.A.	5.09	3.44	2.60	1.98	1.77	2.44	6.35	19.41	23.87	14.13	11.28	7.64	100.0





SP-28 - Discharge of Geneva Creek at Grant, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 74 Square Miles				Altitude 8,566 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL MEAN			
1908																	
1909	1.6	1.4*	0.9*	0.7*	0.5*	0.6E	1.8*	6.0*	18.7	3.2	3.1	1.9	65.3	134.5			
1910	4.6	3.4E	1.5E	1.2*	0.8*	1.1*	2.2	5.0	5.3	2.6	8.8	9.9	30.9	63.6			
1911	1.1*	0.9*	0.7E	0.9*	0.8*	0.7*	1.3	7.3	11.6	9.0	2.0	1.2	39.4	81.1			
1912	2.0	1.2*	0.6E	0.5*	0.5E	0.6	0.9	4.9			3.2	2.2					
1913	2.3	1.4					1.9	9.4	10.3	7.4	4.3	3.9					
1914	2.7	1.7	1.0	1.0	0.9	1.0	2.6	25.2	36.9	21.2	13.9	3.6	111.7	230.0			
1915	2.1	1.2	0.7	0.7	0.5	0.6	1.3	6.1	10.6	5.7	2.7	1.4	33.6	69.2			
1916	1.7	1.0	0.8	0.7	0.6	0.8	1.6	5.3	8.7	5.2	4.6	2.3	33.3	68.6			
1917	1.6	1.4	1.1	0.9	0.6	0.8	1.0	3.5	17.9	12.1	4.2	1.7	46.8	96.4			
1918	1.3	1.0	0.8	0.7	0.6	0.7											
No. Items	10	10	9	9	9	9	9	9	8	9	9	10					
Mean	2.10	1.46	0.90	0.81	0.64	0.77	1.62	8.08	15.00	8.98	5.20	3.00	448.56				
% Mean																	
Annual	4.32	3.01	1.85	1.67	1.32	1.58	3.34	16.64	30.89	18.49	10.71	6.18	100.00				

SP-28C - Discharge of Scott-Gomer Creek near Grant, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 21 Square Miles				Altitude 8,570 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL MEAN			
1911				0.3E	0.3E	0.3E	0.3*	2.9	3.6	2.1	0.8	0.6					
1912	0.6	0.5*	0.3E	P		P	P	P	P	P	P	P					
1913	P	P				P	P	P	P	P	P	P					
1914	P	P															
No. Items	1	1	1	1	1	1	1	1	1	1	1	1					
Mean	0.60	0.50	0.30	0.30	0.30	0.30	0.30	2.90	3.60	2.10	0.80	0.60	12.60				
% M.A.	4.76	3.97	2.38	2.38	2.38	2.38	2.38	23.02	28.57	16.67	6.35	4.76	100.00				



SP-29 & 30 - Discharge of Bear Creek at Starbuck & Morrison, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 165 Square Miles      Altitude 5,670A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1887											P	2.6		ANNL.IN
1888	P					P	1.7	5.7	5.8	4.0	3.6	1.8		
1889	P							P	P	3.0	P			
1890								P	2.4	2.1	1.5	1.2		
1891	1.3	P			P		P	12.0	19.2	5.5	2.0	1.5		
1895								P	P	8.3	7.5	4.1		
1896	P						P	3.1	1.9	P	P	3.0		
1897	2.2							P	10.6	7.1	12.2	3.9		
1898	3.4	2.0						P	8.5	9.2	4.1	2.7		
1899	1.8	1.4*					P	6.3	5.5	5.3	6.4	1.8		
1900	P						P	29.9	22.6	7.1	3.1			
1901	1.8	1.0	P				3.2	7.1	6.8	3.2	2.5	1.3		
1902	1.2E	0.9E	P											
1920	1.9	1.2	0.9	0.9	1.0	1.2	1.7	14.5	9.1	4.8	4.8	4.0	46.0	106.2
1921	1.9	1.2	1.2*	0.9*	1.2	1.0	5.4	17.5	19.8*	12.0E	10.4*	5.2	77.7	179.4
1922	1.9	1.2	1.4*	1.0E	0.9E	1.4E	2.6	6.0	5.1	3.3	5.6	3.0	33.4	77.1
1923	1.9	1.9	1.5E	1.1E	0.9E	2.0E	3.2	8.6	14.2	11.7	18.9	10.3	76.2	176.0
1924	5.9	5.2	3.5*	2.1E	2.1*	2.0	6.1	14.0	15.8	5.6	1.8	1.5	65.6	151.5





SP-29 & 30 - Discharge of Bear Creek at Starbuck & Morrison, Colorado (Continued)

Unit: 1,000 Acre-Feet														Drainage Area 165 Square Miles														Altitude 5,670.4 Feet													
YEAR		OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		ANNUAL		ANNUL.IN													
1925		2.1		1.4		1.1*		0.9E		0.8*		0.9		1.0		1.0		1.5		1.6		2.6		4.7		19.6		45.3		45.3											
1926		5.3		3.4		2.0*		1.2*		1.0*		2.0		21.6		13.4		15.5		10.9		6.0		2.4		84.7		195.6		195.6											
1927		2.0		1.6		1.2*		1.1E		0.9*		1.3		5.2		2.9		3.9		3.5		5.4		2.9		31.9		73.7		73.7											
1928		2.0		1.4		1.2E		0.9E		0.4E		1.2*		12.0		2.4		9.2		4.7		3.0		1.4		39.8		91.9		91.9											
1929		1.6		1.4		0.9*		0.8E		0.4E		0.8E		3.3		1.2		2.4		3.5		2.5		4.9		30.7		70.9		70.9											
1930		2.8		1.3*		0.8*		0.7E		1.0*		1.2		3.0		2.5		3.0		3.2		9.8		3.7		33.0		76.2		76.2											
1931		2.6		1.2*		0.8*		0.8E		0.9*		1.3		10.1		2.8		9.2		3.5		2.2		1.2		36.6		84.5		84.5											
1932		1.3		0.9*		0.7E		0.5*		0.3E		0.6*		2.6		1.1*		3.0		3.5		2.6		1.7		18.8		43.4		43.4											
1933		1.2		1.3		0.5*		0.4E		0.2E		0.2*		14.4		1.3		10.6		6.2		2.5		3.2		42.0		97.0		97.0											
1934		2.1		1.4		1.2		0.8*		0.8*		1.0		5.0		2.4		2.3		1.4		1.5		0.8		20.7		47.8		47.8											
1935		0.6		0.6		0.6E		0.7E		0.4		0.4		7.7		0.9		7.4		4.2		3.0		2.2		28.7		66.3		66.3											
1936		1.1		1.4		0.6		0.4*		1.6		1.5		9.2		1.8		9.2		5.4		10.8		2.7		45.7		105.5		105.5											
1937		2.5		1.6		0.9		0.4E		0.4		0.8		3.2		1.5		8.0		5.6		2.4		2.0		29.3		67.7		67.7											
1938		1.4		1.0		0.9		0.9		0.8		1.0		15.4		5.1		11.1		5.7		4.0		22.1		69.4		160.3		160.3											
No. Items		25		23		19		19		19		19		25		21		28		29		28		29																	
Mean		2.15		1.56		1.15		0.87		0.84		1.15		9.54		3.06		8.70		5.35		5.35		3.58		#43.30															
% Mean.																																									
Annual		4.97		3.60		2.66		2.01		1.94		2.66		22.03		7.07		20.09		12.35		12.35		22.1		100.00															

From October, 1919, to September, 1934, water stage recorder at Starbuck, three miles above; records comparable.



SP-31 - Discharge of Bear Creek at Mouth, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 259 Square Miles      Altitude 5,300A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1914							21.8	35.1	10.4	6.5	14.7	1.0		
1915	2.3	3.2												
1927					P	0.7	1.2	1.2	0.8	0.7	2.4	1.4		
1928	1.6	1.1	1.1	0.8	0.7	0.5	1.0	15.4	4.0	0.5	0.4	0.3	27.4	112.7
1929	1.1	1.1	1.0E	0.9E	0.7E	0.7	0.3	0.3	0.2	0.6	2.7	0.7	10.3	42.4
1930	0.6	0.9	0.8	0.8*	0.6	0.6	0.5	0.6	0.1	0.4	3.4	0.6	9.9	40.7
1931	0.8	0.9	0.7*	0.8E	0.6	0.7	1.4	4.5	2.1	1.1	1.2	0.5	15.3	62.9
1932	0.8	1.0	1.1*	0.9E	0.8E	0.5*	0.3	0.3	0.4	0.4	0.4	0.3	7.2	29.6
1933	0.6	0.7	0.7*	0.7E	0.6E	0.4*	2.1	14.8	4.8	4.8*	0.9	1.9*	33.0	135.7
1934	0.6	0.8	0.9	0.8	0.6	0.5	0.5	0.8	0.3	0.3	0.7	0.3	7.1	29.2
1935	0.3	0.5	0.6	0.5	0.5	0.3	0.2	4.1	2.3	0.8	0.7	0.7	11.5	47.3
1936	0.6	0.7	1.0	0.6	0.5*	0.5	0.3	1.0	1.4	0.7	6.4	1.0	14.7	60.5
1937	2.9	1.0	0.8	0.6E	0.6	0.5	0.7	0.6	2.8	1.1	1.0	1.3	13.9	57.2
1938	1.4	1.1	0.8	0.6	0.5	0.5	3.6	21.6	6.1	2.0	1.7	15.2	55.1	226.7
No. Items	12	12	11	11	11	12	13	13	13	13	13	13		
Mean	1.13	1.08	0.86	0.73	0.61	0.53	2.61	7.72	2.75	1.53	2.82	1.94	#24.31	
% M.A.	4.65	4.44	3.54	3.00	2.51	2.18	10.74	31.76	11.31	6.29	11.60	7.98	100.00	

SP-31A - Discharge of Clear Creek at Idaho Springs, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 239 Square Miles      Altitude 7,540 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1911	5.0	2.9	P	1.2E	1.3E	1.9	3.3	12.1	28.8	23.7	8.2	4.4		
1912	4.1	3.3	2.5E	1.8E	1.7E	2.2E	2.4	14.4	54.7	49.3	22.2	9.1	167.7	127.5
No. Items	2	2	1	2	2	2	2	2	2	2	2	2		
Mean	4.55	3.10	2.50	1.50	1.50	2.05	2.85	13.25	41.75	36.50	15.20	6.75	#131.50	
% Mean														
Annual	3.46	2.36	1.90	1.14	1.14	1.56	2.17	10.08	31.75	27.75	11.56	5.13	100.00	





SP-32 - Discharge of Clear Creek at Forks Creek, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 345 Square Miles      Altitude 7,000A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1899							10.7	P	P	48.6	27.1	12.7		
1900	8.7	4.6	P				10.6	48.5	57.6	23.2	8.4	3.5		
1901	3.6	3.1	P					32.7	44.1	30.5	16.7	8.8		
1902	6.3	3.3					P	19.4	23.7	12.2	5.8	4.1		
1903	4.0*						P	15.2	47.8	34.9	13.5	7.4		
1904	6.6						8.3	27.8	65.0	40.0	23.9	18.3		
1905	13.5						7.8	29.0	76.8	25.8	11.9	6.9		
1906	4.6						6.2	33.6	60.1	36.3	15.5	14.0		
1907	14.8	11.6*				P	7.4	22.3	53.7	46.7	17.0	8.0		
1908	6.1	P				2.4	5.1	11.7	24.5	13.2	13.4	7.3		
1909	4.8	4.0*	3.6*				P	22.0	58.3	46.3	27.7	26.1		
1910	12.6	5.4		2.5	2.5E	2.9*	5.6	18.1	30.4	15.4	12.2	9.7		
1911	4.4	3.1*	1.8E	1.4	1.4	2.3	4.8	19.8	42.7	31.8	11.8	6.2	131.5	80.5
1912	4.5	3.6	2.5			P	3.5	22.0	67.2	59.2	31.2	10.7		
1913	7.5													
No. Items	14	8	3	2	2	3	10	13	13	14	14	14		
Mean	7.29	4.84	2.63	1.95	1.95	2.53	7.00	24.78	50.15	33.15	16.86	10.26	#163.39	
% Mean														
Annual	4.46	2.96	1.61	1.19	1.19	1.55	4.29	15.17	30.69	20.29	10.32	6.28	100.00	



SP-32A - Discharge of Clear Creek 7 miles above Golden, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 348 Square Miles				Altitude 6,320A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1887											P	16.2			
1888	P					P	7.1	P	P	P	P	P			
No. Items							1					1			
Mean							7.10					16.20	#23.30x		

SP-33 - Discharge of Clear Creek near Golden, Colorado

Unit: 1,000 Acre-Feet			Drainage Area 392 Square Miles								Altitude 5,620 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1909			3.6	3.7	2.7	3.4	6.0	20.5	75.0	68.9	26.2	27.4		
1910	13.0	7.2	6.7											
1911									P	31.0	10.8	6.4		
1912				2.0	1.7*	2.5	3.5	21.1	76.8	71.4	25.1	9.9		
1913	7.7	4.9	5.1E	3.1*	2.7*	3.3	6.2	27.7	41.2	29.8	16.4	14.3*	160.4	88.5
1914	11.4	8.1	4.6*	P	P	P	13.0	68.9	102.0	47.8	26.5	10.1		
1915	7.4	4.2		P	P	P	6.4	24.9	64.3	39.6	15.2	8.1		
1916	7.1	P		P	P	P	5.7	19.1	38.7	27.0	20.3	10.8		
1917	7.6	3.8*	3.0E	3.0	2.9	3.2	5.0	18.7	61.3	47.3	16.3	5.9	178.0	98.2
1918	4.6			P	P		P	26.7	79.7	42.2	P	P		
1919	7.0	P					6.7	32.3	31.7	22.7	15.2	9.9		





SP-33 - Discharge of Clear Creek near Golden, Colorado (Continued)

Unit: 1,000 Acre-Feet										Drainage Area 392 Square Miles		Altitude 5,620 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1920	6.1	4.6*		P	P		4.2	31.8	60.7	33.8	18.8	11.1		
1921	7.7	4.8*	4.3*	4.0*	3.0E	4.0	9.5	45.8	118.0	47.0	19.6	11.1	278.8	153.9
1922	6.5	5.0	3.6	P			P	16.7	41.0	19.6	12.8	6.7		
1923	4.6	P		P		P	4.9	22.0	52.2	50.1	29.7	13.3		
1924		P		P		3.1*	8.0	40.8	77.4	30.6	10.9	5.7		
1925	6.1	P			P		5.4	15.3	25.6	16.5	10.3	10.7		
1926	8.2					3.5	13.6	51.9	78.6	40.9	19.6	8.1		
1927	6.3	4.4	3.2E	3.1E	3.1E	3.7*	6.0	28.9	42.9	30.1	20.3	8.9	160.9	88.8
1928	6.8	4.7	P				4.2	39.4	54.3	36.5	14.0	6.6		
1929	5.0	3.1*	2.7E	2.6E	1.9E	2.3E	2.6*	14.0	37.7	27.4	27.6	15.0	141.9	78.3
1930	8.2	5.1*	3.7E	2.3E	2.3E	2.8	9.5	18.4	48.6	24.0	22.2	9.1	156.2	86.2
1931	5.3	3.7*	3.0E	2.3E	1.8*	3.4*	4.6	16.5	37.9	16.4	10.0	5.0	109.9	60.6
1932	4.6	2.3*	2.4E	2.5E	2.0E	2.5*	6.2	19.1	34.8	26.1	11.4	5.4	119.3	65.8
1933	3.8	3.3	3.0*	1.9E	1.7E	2.0*	2.6	24.6	80.9	42.1	14.3	9.4	189.6	104.6
1934	6.3	3.6	3.4	3.8	3.3	2.7	6.3	48.3	28.0	13.5	9.8	5.3	134.3	74.1
1935	4.0	3.7	1.8*	2.5E	2.8E	2.6	3.3	19.6	64.7	31.3	22.0	9.5	167.8	92.6
1936	6.8	4.1	3.7*	3.1E	3.0E	3.1	8.4	48.7	62.6	30.1	29.6	12.1	215.3	118.8
1937	9.1	5.1	4.3E	2.5E	2.8E	3.3	4.9	24.1	44.0	27.9	11.9	8.2	148.1	81.7
1938	5.4	4.7	4.5	3.0	2.7	3.0	9.3	36.3	92.8	38.3	17.0	25.2	242.2	133.7
No. Items	26	20	18	16	16	18	26	28	28	29	28	28		
Mean	6.79	4.52	3.59	2.84	2.52	3.02	6.38	29.36	59.05	34.82	17.99	10.33	#181.21	
% Mean														
Annual	3.75	2.49	1.98	1.57	1.39	1.67	3.52	16.20	32.59	19.21	9.93	5.70	100.00	



SP-34 - Discharge of Clear Creek near Mouth, Colorado

Unit: 1,000 Acre-Feet				Drainage Area 600 Square Miles								Altitude 5,110 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1914							35.2	56.9	46.1	13.7	7.4	0.8		
1915	2.3	2.5												
1927					P	3.3	1.4	3.4	14.3	4.8	9.6	0.9		
1928	1.4	1.0	2.3*	2.1*	1.5	1.4	0.7	26.1	32.3	5.6	1.6	0.5	76.5	126.8
1929	1.1	1.8	1.6	0.9*	0.8*	1.0E	0.8	2.5	13.2	6.2	7.7	2.2	39.8	66.0
1930	0.8	2.7	2.3*	1.1*	1.6	1.6	1.5	1.6	8.0	4.9	1.4	0.5	28.0	46.4
1931	0.7	1.5	1.8E	1.0E	0.7	1.1	0.9	3.6	6.3	1.9	1.1	0.3	20.9	34.6
1932	0.3	1.3	3.2	2.4	2.0	2.1	0.7	4.1	6.1	4.1	1.4	0.1	27.8	46.1
1933	0.2	0.6	2.8*	4.0E	2.8E	1.5*	1.2	10.5	25.6	5.5	1.2	5.7	61.6	102.1
1934	0.6	0.7	3.3	2.8	2.9	0.9	0.9	17.0	5.3	1.2	0.8	0.6E	37.0	61.3
1935	0.2	0.4	1.8	1.2	1.0	0.4	0.4	4.8	14.7	6.6	1.4	0.5	33.4	55.4
1936	1.0	2.2	1.5*	1.5E	1.0E	1.5	2.2	15.8	21.5	5.8	16.9	3.5	74.4	123.3
1937	3.6	2.7	0.8*	0.5*	1.0E	2.0	0.9	6.1	22.9	11.5	0.4	0.4	52.8	87.5
1938	0.3	2.2	0.9	0.9	1.3	0.7	2.8	30.4	54.2	13.0	0.5	7.8	115.0	190.6
No. Items	12	12	11	11	11	12	13	13	13	13	13	13		
Mean	1.04	1.63	2.03	1.67	1.51	1.46	3.82	14.06	20.81	6.52	3.95	1.83	#60.33	
% Mean														
Annual	1.72	2.70	3.37	2.77	2.50	2.42	6.33	23.31	34.49	10.81	6.55	3.03	100.00	





SP-34A - Discharge of West Fork Clear Creek near Empire, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 57.3 Square Miles					Altitude 8,300 Feet				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN					
1929									15.3	9.0	7.0	3.7							
1930	2.4	1.3*	0.8*	0.7*	0.6*	0.6*	2.4	5.9	23.6	7.7	6.1	2.4	54.5	120.0					
1931	1.5	1.0	0.8*	0.6*	0.4*	0.5	0.9	4.4	15.4	5.3	2.5	1.3	34.4	75.7					
No. Items	2	2	2	2	2	2	2	2	3	3	3	3							
Mean	1.95	1.15	0.80	0.65	0.50	0.55	1.65	5.15	18.10	7.33	5.13	2.47	44.5	43					
% Mean																			
Annual	4.29	2.53	1.76	1.43	1.10	1.21	3.63	11.34	39.84	16.14	11.29	5.44	100.00						

SP-35 - Discharge of Fall River near Idaho Springs, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 23.6 Square Miles					Altitude 7,720 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1930						P	1.2*	2.0	3.9	2.3	2.2	1.2				
1931	0.6	0.4*	0.4*	0.2*	0.2*	0.2*	0.5*	2.6	3.3	1.8	1.7*	0.5	12.4	84.9		
1932	0.4	0.4*	0.2*	0.2*	0.2*	0.2*	0.4*	2.2	4.4	2.4	1.7	0.4	13.1	89.7		
1933	0.3	0.3*	0.1*	0.1*	0.1*	0.2*	0.4E	2.1	5.2	2.7	1.4	0.8	13.7	93.8		
1934	0.3	0.2*	0.2*	0.1*	0.1E	0.2E	0.4E	4.0*	2.5	1.2	0.5	0.4	10.1	69.1		
1935	0.3	0.2E	0.2E	0.2E	0.3E	0.3*	0.4	3.6	6.1	2.9	1.9	0.8	17.2	117.7		
1936	0.5	0.4*	0.3E	0.2E	0.2E	0.2E	0.9*	4.3	4.4	2.3	2.1	1.1	16.9	115.7		
1937	0.9						P		2.9	2.1	1.4	0.7				
1938	0.7	0.7				0.3	0.7	3.4	7.3	3.2	2.4	1.7				
No. Items	8	7	6	6	6	7	8	8	9	9	9	9				
Mean	0.50	0.37	0.23	0.17	0.18	0.23	0.61	3.02	4.44	2.32	1.70	0.84	#14.61			
% Mean																
Annual	3.42	2.53	1.57	1.16	1.23	1.58	4.18	20.67	30.39	15.88	11.64	5.75	100.00			



SP-35A - Discharge of North St. Vrain Creek near Allen's Park, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 33 Square Miles										Altitude 8,250 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNL. IN						
1926	1.2*	0.9	0.7	0.6E	0.4E	0.5*	1.2	8.2	17.5	11.7	4.5	1.4	48.8	108.5							
1927	0.7	0.9	0.5E	0.4	0.4	0.5	1.0	5.9	14.9	10.3	5.6	2.3	43.4	96.5							
1928	1.4	0.8					0.6	8.2	14.5	13.5	4.1	1.6									
1929	1.3	0.8	0.6	0.4*	0.3E	0.6*	0.6	4.5	14.0	12.7	6.3	4.5	46.6	103.6							
1930	2.2	1.1	0.5E	0.4E	0.2E	0.3*	1.8	4.6	10.5	7.2	7.8	2.9	39.5	87.8							
No. Items	5	5	4	4	4	4	5	5	5	5	5	5									
Mean	1.36	0.90	0.58	0.45	0.32	0.48	1.04	6.28	14.28	11.08	5.66	2.54	#44.97								
% Mean																					
Annual	3.02	2.00	1.29	1.00	0.71	1.07	2.31	15.97	31.75	24.64	12.59	5.65	100.00								

SP-35B - Discharge of North St. Vrain Creek near Billing's Ranch, Colorado

Unit: 1,000 Acre-Feet				Drainage Area 100 Square Miles										Altitude 6,280 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN	
1916	3.7	1.8	1.5	0.9	0.8	1.5	3.6	10.2	13.0	13.5	8.4	3.8	67.7	15.3	
1917	3.2	2.0	1.1	0.8	0.6	0.8	4.0	15.7	29.3	24.2	7.4	3.9	93.0	117.2	
1918	1.6	1.2	0.9												
No. Items	3	3	3	2	2	2	2	2	2	2	2	2			
Mean	2.83	1.67	1.17	0.85	0.70	1.15	3.80	12.95	23.65	18.85	7.90	3.85	#79.37		
% Mean															
Annual	3.57	2.10	1.47	1.07	0.88	1.45	4.79	16.32	29.80	23.75	9.95	4.85	100.00		





SP-36 - Discharge of North St. Vrain Creek at Longmont Dam, Colorado

Unit: 1,000 Acre-Feet			Drainage Area 109 Square Miles					Altitude 6,080 Feet						
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1913			P	0.7	0.6	P								
1915			1.0	0.7	0.7	0.8								
1916			1.1	0.9										
1917			1.1	0.8	0.6	0.7								
1923		P	0.8	0.6	0.5	0.7	P							
1926	3.1*	2.3*						16.6*	24.8	15.8	6.0	2.4		
1927	1.8	1.0*	0.7*	0.7*	0.5*	0.7*	2.9	10.9	17.3	12.3	7.4	2.9	59.1	93.4
1928	2.3	1.9	1.3*	0.9*	0.8	1.2	2.9	22.8	20.9	15.8	5.8	2.3	73.9	124.7
1929	1.7	1.2	0.8	0.6	0.5	0.8	2.3	7.3	19.2	16.5	11.1	6.8	68.8	108.7
1930	3.4	1.6	1.1	0.7	0.7	0.8	4.1	7.5	13.9	9.9	10.9	3.8	58.4	92.3
1931	1.9	1.1	0.7	0.4	0.5	0.6	1.6	10.9	18.2	6.7	3.5	1.6	47.7	75.4
1932	1.6	0.9	0.6	0.4	0.4	0.6	2.0	7.9	15.9	10.9	4.0	1.7	46.9	74.1
1933	1.4	1.0	0.7	0.5	0.4	0.8	2.0	14.0	27.6	10.5	4.0	3.0	65.9	104.1
1934	2.1	1.0	0.9	0.7	0.7	1.0	2.7	16.0	8.6	4.5	2.8	1.6	42.6	67.3
1935	1.3	0.7	0.6	0.6	0.5	0.6	1.0	10.5	21.8	13.1	4.8	2.9	58.4	92.3
1936	1.6	1.2	0.7	0.6	0.6	0.8	5.5	16.3	24.9	13.4	11.0	2.8	79.4	125.5
1937	1.9	1.4	1.0	0.4	0.5	0.7	3.0	11.0	20.8	11.8	4.4	2.3	59.2	93.6
1938	1.5	1.0	0.9	0.6	0.5	0.7	5.3	13.6	27.0	12.6	6.0	9.7	79.4	125.5
No. Items	13	13	16	17	16	15	12	13	13	13	13	13		
Mean	1.97	1.25	0.88	0.64	0.56	0.77	2.94	12.72	20.07	11.83	6.28	3.37	#63.28	
% Mean														
Annual	3.11	1.98	1.39	1.01	0.88	1.22	4.65	20.10	31.72	18.69	9.92	5.33	100.00	



SP-36A - Discharge of North St. Vrain Creek near Lyons, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 123 Square Miles										Altitude 5,400A Feet					
YEAR		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1892									P	22.7	19.2	5.9	3.5				
1893	2.5																
No. Items		1										1	1	1	1		
Mean		2.50										22.70	19.20	5.90	3.50	#53.80x	

SP-37 - Discharge of St. Vrain Creek at Lyons, Colorado

Drainage Area 226 Square Miles													Altitude 5,349 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1887											P	6.5		
1888	P						P	9.7	19.0	13.0	8.3	3.4		
1889	P							P	21.7	12.1	6.5	2.6		
1890	2.2							P	25.9	18.0	11.0	3.9		
1891	2.8	P					9.9	38.7	62.3	31.7	9.3	5.7		
1896							4.4	14.1	19.0	13.0	9.5	7.7		
1897	3.4							P	39.7	28.1	16.8	7.3		
1898	2.9	2.1						13.0	25.6	14.1	6.3	3.6		
1899	0.9	0.8					12.8	16.0	44.0	40.0	18.4	5.1		
1900	2.6	1.2				P		39.0	37.1	16.6	6.0	3.9		
1901	2.9	P					6.0	20.7	29.2	18.5	9.6	3.5		
1902	1.8	0.8					1.8	12.0	16.7	6.3	3.2	4.0		
1903	3.6	P					P	14.1	40.3	22.6	7.9	3.8		
1904	2.5									20.4	10.8	5.9		





SP-37 - Discharge of St. Vrain Creek at Lyons, Colorado (Continued)

Unit: 1,000 Acre-Feet														Drainage Area 226 Square Miles		Altitude 5,349 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN			
1905	3.2	1.4						26.9	50.6	17.0	9.0	3.5					
1906							P	24.5	27.6	21.3	11.1	6.5					
1907							P	P	42.0	43.1	16.7	4.7					
1908	3.1	P	1.0				2.3	6.1	15.7	13.7	11.3	5.7					
1909	2.4	2.2					P	18.3	43.2	31.6	11.7	7.6					
1910	2.8	1.6	1.2	1.0	0.7	1.5	2.4	9.2	14.3	9.0	4.7	4.0	52.4	53.7			
1911	1.6	0.9	0.8	0.7	0.4	1.1	2.5	12.6	25.3	15.4	6.3	3.7	71.3	73.0			
1912	3.0	1.1	0.5	0.5	0.3	0.8	3.8	21.7	37.4	32.9	10.8	5.0	117.8	120.6			
1913	4.1	1.6					P	15.1	18.6	11.7	5.4	5.9					
1914	5.2	2.0				3.6	14.2	33.0	45.7	21.9	11.8	4.8					
1915	3.4	1.8				P	14.8	19.4	30.8	20.0	9.8	7.4					
1916	5.8	2.5				P	4.2	16.8	25.4	19.1	10.8	5.1					
1917	4.4	2.7	1.1	0.6	0.6	1.1	5.6	29.0	41.8	29.6	9.2	4.0	129.7	132.8			
1918	1.2	1.0	0.9	0.7	0.6	1.1	2.6	10.0	46.6	21.6	9.0	5.2	100.5	102.9			
1919	4.6	1.4	1.0	0.7	0.4	0.6	2.9	13.8	15.6	10.8	10.6	4.1	66.5	68.1			
1920	2.1	0.7	0.5	0.7	0.7	0.8	2.9	29.4	30.0	21.6	11.6	4.6	105.6	108.1			
1921	1.8	1.1	1.0	1.0	0.7	1.0	10.2	24.8	64.9	23.6	10.7	4.4	145.2	148.7			
1922	1.2	1.0	1.1	0.6	0.3	0.8	2.6	9.9	22.4	10.8	5.4	2.1	58.2	59.6			
1923	0.6	0.7	0.7	0.7	0.6	1.2	4.9	21.6	49.1	35.7	14.4	6.6	136.8	140.1			
1924	7.6	8.3	3.4	1.9	1.5	1.7	12.6	24.5	48.7	20.9	7.1	2.9	141.1	144.5			
1925	1.8	0.9	0.5	0.7	0.8	0.8	1.5	8.3	13.8	11.1	6.7	4.6	51.5	52.7			
1926	4.1	3.0	1.8	1.6	1.3	2.3	20.6	26.5	38.8	24.7	10.8	3.5	139.0	142.3			
1927	1.1	0.8	0.9	0.8	0.7	0.9	5.9	16.4	25.5	17.9	9.6	5.5	86.0	88.1			
1928	1.7	1.1	1.4	1.0	0.8	0.8	2.3	29.5	27.0	21.8	8.8	3.2	99.4	101.8			
1929	1.2	1.2	0.9	0.6	0.5	1.0	2.4	10.0	25.9	20.3	13.8	7.1	84.9	86.9			
1930	4.4	1.7	1.1	0.8	0.8	0.9	4.6	10.0	20.7	12.7	14.2	5.5	77.4	79.2			
1931	2.0	0.9	0.6	0.5	0.6	0.8	2.4	13.7	25.5	8.7	4.5	1.9	62.1	63.6			
1932	1.2	0.9	0.6	0.2	0.4	0.4	2.5	12.7	25.8	16.8	4.6	1.5	67.6	69.2			
1933	1.1	0.8	0.5	0.6	0.3	0.6	3.4	26.4	40.5	15.3	4.5	4.5	98.5	100.8			
1934	2.2	1.0	0.6	0.6	0.9	1.4	3.4	25.4	13.7	5.0	2.5	1.3	58.0	59.4			



SP-37 - Discharge of St. Vrain Creek at Lyons, Colorado (Continued)

Drainage Area 226 Square Miles											Altitude 5,349 Feet			
Unit: 1,000 Acre-Feet											ANNUAL % MEAN			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1935	1.0	0.4	0.5	0.5	0.5	0.6	1.2	19.4	35.7	20.1	6.3	3.6	39.8	91.9
1936	1.3	1.2	0.4	0.5	0.5	0.9	7.5	25.4	35.0	17.5	12.5	4.0	106.7	109.2
1937	2.0	1.7	0.7	0.3	0.6	0.9	3.9	15.9	24.9	15.2	5.4	3.1	74.6	76.4
1938	1.2	1.2	0.9	0.8	0.4	0.4	9.0	22.5	37.0	17.7	6.7	15.6	113.4	116.1
No. Items	42	35	26	25	25	26	34	42	46	47	47	48		
Mean	2.62	1.53	0.95	0.74	0.64	1.08	5.71	19.19	31.87	19.37	9.19	4.78	#97.67	
% M.A.	2.68	1.57	0.97	0.76	0.65	1.11	5.85	19.65	32.63	19.83	9.41	4.89	100.00	

SP-38 - Discharge of St. Vrain Creek at Mouth, Colorado

Drainage Area 1,000 Square Miles													Altitude 4,740 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1915							30.5	55.6	55.1	19.1	7.2	7.9		
1916	16.8	7.6	7.0											
1927					P									
1928	9.2	7.0	7.0	7.8	5.1	6.4	13.0	12.5	14.8	12.7	16.5	9.3		
1929	5.6	6.2	5.2*	5.8*	5.6*	8.6*	6.9	70.7	38.4	16.7	9.8	6.0	191.0	163.0
1930	8.2	8.0	8.6*	5.5*	8.9E	6.0	5.9	6.6	6.7	8.3	18.0	7.1	105.7	90.2
1931	7.3	5.1	5.2*	5.7*	3.9*	5.0	5.6	12.0	12.6	6.6	4.3	3.6	97.3	83.5
1932	2.6	2.6*	2.8*	3.1*	3.1*	3.0*	2.1*	3.0	5.6	5.7	3.3	3.1	76.9	65.6
1933	2.7	3.2	2.5*	2.3*	3.0*	2.7	4.6	48.8	17.7	6.2	3.9	6.5	40.0	34.1
1934	4.2	3.3	3.8	4.1	5.3	4.5	6.4	13.5	6.2	3.1	3.1	1.4	104.1	88.8
1935	1.6	1.9	1.7*	1.5*	1.7	1.7	1.5	28.4	42.8	6.7	4.1	6.1	55.9	50.3
1936	5.3	5.2	5.0*	4.9E	4.6*	4.6	6.8	8.4	29.2	7.6	11.9	5.7	99.7	85.1
1937	8.6	6.6	8.1	5.8E	5.4E	6.4	7.2	6.4	30.0	13.2	6.3	6.2	99.2	84.7
1938	4.4	3.8	4.1	4.4	4.8	4.1	13.5	50.1	30.7	17.2	7.4	63.2	110.2	94.0
No. Items	12	12	12	11	11	12	13	13	13	13	13	13	207.7	177.2
Mean	6.38	5.04	5.08	4.63	4.67	5.02	8.46	24.84	22.82	10.48	9.11	10.65	#117.18	
% M.A.	5.44	4.30	4.34	3.95	3.99	4.28	7.22	21.20	19.48	8.94	7.77	9.09	100.00	





SP-38A - Discharge of South St. Vrain Creek near Ward, Colorado

Drainage Area 15 Square Miles												Altitude 9,420 Feet		
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN
1926								P	9.8	7.6	3.3	1.2		
1927	0.7							P	8.1	6.3	3.4	1.5		
1929								P	9.2	6.9	5.1	2.2		
1930	1.0	0.6E	0.5E	0.3E	0.2E	0.2E	1.2E	2.4	5.8	4.1	2.3	0.8	19.4	82.9
1931	0.5	0.2*	0.1E	0.1E	0.1E	0.1E	0.3E	3.1*	7.2	2.5	2.0	0.6	16.8	71.8
No. Items	3	2	2	2	2	2	2	2	5	5	5	5		
Mean	0.73	0.40	0.30	0.20	0.15	0.15	0.75	2.75	8.02	5.48	3.22	1.26	#23.41	
% Mean														
Annual	3.12	1.71	1.28	0.85	0.64	0.64	3.20	11.75	34.26	23.41	13.76	5.38	100.00	

SP-38B - Discharge of South St. Vrain Creek near Lyons, Colorado

Drainage Area 66 Square Miles													Altitude 5,550 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1892								P	28.2	16.9	3.8	1.8		
1893	1.5													
No. Items	1								1	1	1	1		
Mean	1.50								28.20	16.90	3.80	1.80		#52.20x



SP-38C - Discharge of Middle St. Vrain Creek near Allen's Park, Colorado

Unit: 1,000 Acre-Feet				Drainage Area 28.5 Square Miles							Altitude 7,550 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1926							P	8.7	12.5	7.4	3.5	1.0		
1927	0.5	0.3	0.3E	0.3	0.3	0.3	1.3	6.6	8.3	6.3	3.5	1.3	29.3	92.8
1928	0.8	0.6	0.4E	0.4E	0.3	0.4	0.9	8.2	8.7	7.0	2.7	0.8	31.2	98.8
1929	0.6	0.4E	0.4E	0.3*	0.2E	0.2*	0.7*	4.5	10.7	7.7	5.6	2.4	33.7	106.7
1930	1.6	0.9E	0.4E	0.2E	0.2E	0.4E	2.2*	4.1	7.6	4.3	3.5	1.2*	26.6	84.2
No. Items	4	4	4	4	4	4	4	5	5	5	5	5		
Mean	0.88	0.55	0.38	0.30	0.25	0.32	1.28	6.42	9.56	6.54	3.76	1.34	31.58	
% Mean														
Annual	2.79	1.74	1.21	0.95	0.79	1.01	4.05	20.33	30.27	20.71	11.91	4.24	100.00	

SP-38D - Discharge of Lefthand Creek near Boulder, Colorado

Unit: Acre-Feet		Drainage Area 48.3 Square Miles											Altitude 5,500A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN.
1929								P	8690	6400	5170	2570		
1930	1010	325*	246E	184*	222E	200	1950	2630	5820	3990	3220	1220	21,027	90.2
1931	523	56	61E	61E	28E	85	476	5370	8030	3140	1090	417	19,337	83.0
No. Items	2	2	2	2	2	2	2	2	3	3	3	3		
Mean	766.5	190.5	153.5	122.5	125.0	142.5	1213.0	4000.0	7513.3	4510.0	3160.0	1402.3	55,342.1	
Annual	3.29	0.82	0.66	0.52	0.54	0.61	5.21	17.17	32.25	19.35	13.56	6.02	100.00	





SP-39 - Discharge of Lefthand Creek at Mouth, Colorado

Unit: Acre-Feet														Drainage Area 74 Square Miles										Altitude 4,990 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN										
1927						286	1720	2360	1820	1060	1460	359													
1928	429	395	421	440	343	267	496	8850	3240	1430	793	315	17,419	184.2											
1929	262	192	197E	215E	194E	387	415	848	462	1420	3540	934	9,066	95.9											
1930	424	524	379*	400E	252*	282	540	670	666	676	2050	488	7,351	77.7											
1931	275	375	406*	369E	194	224	167	935	1390	325	155	131	4,946	52.3											
1932	155	186*	184E	123E	115E	252*	292	236	649	552	230	111	3,085	32.6											
1933	224	329	184*	246E	167E	85	460	7870	1210	1060	335	613	12,783	135.2											
1934	246	268	350	277	244	203	399	1480	500	228	123	149	4,467	47.2											
1935	87	73	107*	109*	81*	61	75	4260	2050	752	248	508	8,411	88.9											
1936	432	392	282*	320E	317*	144	400	1830	3080*	972*	1590	732	10,491	110.9											
1937	881	648	465	277E	222E	247	613	590	3880	1410	370	458	10,061	106.4											
1938	365	274	284	385	165	202	2360	4060	1460	871	474	3970	14,870	157.2											
No. Items	11	11	11	11	11	12	12	12	12	12	12	12													
Mean	343.6	332.4	296.3	287.4	208.5	220.0	661.4	2832.4	1700.6	896.3	947.3	730.7	9,456.9												
% Mean																									
Annual	3.63	3.52	3.13	3.04	2.20	2.33	6.99	27.95	17.98	9.48	10.02	7.73	100.00												



# SP-40 - Discharge of Boulder Creek at Orodell, Colorado

Drainage Area 105 Square Miles													Altitude 5,800 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1887											P	4.5		
1888	P						4.8	10.0	15.5	12.9	9.7	4.8		
1889	P													
1907						P	4.2	14.4	27.8	28.3	10.1	3.7		
1908	2.0*	0.9*	0.5E	0.3E	0.3*	0.6	3.0	6.3	15.1	9.8	7.3	3.3	49.4	71.5
1909	1.2	1.2	0.6	0.6	0.6	0.7	4.2	10.6	28.7	22.9	11.3	6.8	89.4	129.4
1910	2.0	1.1	0.5	0.4	0.4	1.1	2.5	6.6	10.9	6.5	3.7	1.6	57.3	54.0
1911	0.9	0.5	0.4	0.2	0.4	0.3	1.2	9.2	18.9	10.2	3.9	P		
1912	P	1.1			P	P	P	P	P	P	P	P		
1913	P	1.9	P	1.8*	1.9	1.6*	3.4	5.1	14.5	8.8	4.3	4.0		
1914	3.1	2.3	3.3	3.0	2.4*	1.7*	5.6	F	F	16.5	8.2	4.3*		
1915	2.8*	3.0*												
1916					P	5.1	4.5		F	14.7	8.9	2.9		
1917	2.0	2.5						P	16.8	18.3	5.9	2.2		
1918	1.7	1.9	2.7	3.0	2.5	2.5	2.9	9.3	28.4	19.3	6.8	3.3	84.3	122.0
1919	3.5	3.3	3.7	3.3	2.7	2.5	2.8	10.1	13.1	8.6	6.2	1.8	61.6	89.1
1920	1.4	1.9	1.0	0.8	1.4	1.1	1.6	10.9	20.0	16.7	9.6	4.5	70.9	102.6
1921	2.4	1.3	0.9	2.2	1.6	1.7	3.1	10.9	48.4	18.7	7.0	2.5	100.7	145.7
1922	1.2	1.1	2.4	3.6	2.0	5.2	7.0	9.6	22.1	10.1	4.6	1.6	70.5	102.0
1923	1.2	1.1	1.5	1.7	1.2	1.8	2.6	9.5	30.0	20.5	7.2	3.1	81.4	117.8
1924	5.1	5.7	5.2	3.8	3.5	2.2	4.5	11.9	27.4	12.9	4.5	3.2	89.9	130.1
1925	4.5	3.0	2.2	2.1	1.4	1.2	2.0	7.8	12.3	8.0	3.5	3.7*	51.7	74.8
1926	1.6	1.4	2.2	1.9	1.8	2.2	9.4	16.2	30.8	19.9	9.3	3.5	100.2	145.0
1927	2.7	2.4	2.0	1.9	1.9	1.4	3.3	9.7	16.7	14.3	7.2	4.0	67.5	97.7
1928	3.0	3.5	3.4	1.7	1.5	1.8	2.2	12.0	23.6	19.7	6.4	3.6	82.4	119.2
1929	2.1	1.2	2.1	2.2	1.4	2.2	1.9	7.1	23.0	14.8	8.4	4.9	71.3	103.2





SP-40 - Discharge of Boulder Creek at Orodell, Colorado (Continued)

Unit: 1,000 Acre-Feet														Drainage Area 105 Square Miles														Altitude 5,800 Feet													
														ANNUAL														ANNUAL													
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN												
1930	2.0	1.7	1.3	1.4	1.8	1.1	4.4	7.5	18.6	11.4	8.9	2.9	63.0	91.2	1930	2.0	1.7	1.3	1.4	1.8	1.1	4.4	7.5	18.6	11.4	8.9	2.9	63.0	91.2												
1931	1.6	0.9	1.7	1.3	0.8	1.7	2.3	9.7	20.4	7.1	3.8	1.6	52.9	76.5	1931	1.6	0.9	1.7	1.3	0.8	1.7	2.3	9.7	20.4	7.1	3.8	1.6	52.9	76.5												
1932	1.1	0.7	0.8	0.7	0.6	1.0	2.2	9.9	17.6	13.0	5.5	1.2	54.3	78.6	1932	1.1	0.7	0.8	0.7	0.6	1.0	2.2	9.9	17.6	13.0	5.5	1.2	54.3	78.6												
1933	0.7	0.8	0.5*	0.4	0.1	0.4	1.2	8.4	20.9	10.3	3.6	3.2	50.5	73.1	1933	0.7	0.8	0.5*	0.4	0.1	0.4	1.2	8.4	20.9	10.3	3.6	3.2	50.5	73.1												
1934	1.6	1.5	2.0	2.3	1.5	1.9	3.3	13.0	8.7	4.0	2.2	1.1	43.1	62.4	1934	1.6	1.5	2.0	2.3	1.5	1.9	3.3	13.0	8.7	4.0	2.2	1.1	43.1	62.4												
1935	0.5	0.3	0.5	0.4	0.5	0.5	1.3	5.6	25.2	18.3	5.7	3.2	62.0	89.7	1935	0.5	0.3	0.5	0.4	0.5	0.5	1.3	5.6	25.2	18.3	5.7	3.2	62.0	89.7												
1936	2.1	2.0	2.4	1.8	1.3*	1.6	3.8	16.1	22.3	13.1	9.8	3.0	79.3	114.7	1936	2.1	2.0	2.4	1.8	1.3*	1.6	3.8	16.1	22.3	13.1	9.8	3.0	79.3	114.7												
1937	2.3	1.4	2.2	2.0*	1.6	2.2	2.8	10.8	10.4	11.0	4.1	3.3	54.1	78.3	1937	2.3	1.4	2.2	2.0*	1.6	2.2	2.8	10.8	10.4	11.0	4.1	3.3	54.1	78.3												
1938	1.4	1.5	2.0	1.9	1.8	1.9	4.6	9.2	25.3	15.6	5.9	7.5	78.6	113.7	1938	1.4	1.5	2.0	1.9	1.8	1.9	4.6	9.2	25.3	15.6	5.9	7.5	78.6	113.7												
No. Items	28	30	26	27	27	28	30	26	29	31	31	31			No. Items	28	30	26	27	27	28	30	26	29	31	31	31														
Mean	2.06	1.77	1.85	1.73	1.44	1.76	3.42	9.91	21.15	14.08	6.56	3.38	#69.11		Mean	2.06	1.77	1.85	1.73	1.44	1.76	3.42	9.91	21.15	14.08	6.56	3.38	#69.11													
% Mean															% Mean																										
Annual	2.98	2.56	2.68	2.50	2.08	2.55	4.95	14.34	30.60	20.38	9.49	4.89	100.00		Annual	2.98	2.56	2.68	2.50	2.08	2.55	4.95	14.34	30.60	20.38	9.49	4.89	100.00													



SP-11 - Discharge of Boulder Creek near Boulder, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 179 Square Miles		Altitude 5,500 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN		
1888							4.8	10.1	15.5	12.9	9.7	4.8				
1889	3.7							P	33.6	17.0	6.0	2.0				
1890	2.2							P	20.3	15.2	P	3.3				
1891	P	P						P	25.4	14.8	7.1	P				
1892								P	26.6	22.9	9.1	3.2				
1893	2.6															
1895								P	29.9	21.8	12.6	5.1				
1896	2.7						4.8	14.8	15.7	9.4	5.4	4.3				
1897	2.0							22.0	32.8	23.2	13.2	4.9				
1898	3.2	2.5						14.3	26.4	13.0	3.3	1.8				
1899	0.4	2.4					7.0	21.7	32.5	35.5	16.4	5.0				
1900	2.3	1.4						33.4	38.1	15.7	5.8	3.0				
1901	2.0						4.5	23.9	30.5	19.6	7.0	2.1				
1902	0.9	0.5	0.3													
1904										P	9.8	3.3				
1905	P						9.3	25.5	36.7	15.3	6.7	P				
1906							P	23.9	27.8	18.2	8.7	6.3				
1907	4.0	5.4	P					19.8	35.0	34.7	11.4	3.5				
1908	1.8	P						6.3	15.2	9.9	P	2.6				
1909	1.1	1.0	0.8*				2.4									
No. Items	13	6	2				6	11	16	16	15	15				
MEAN	2.22	2.20	0.55				5.47	20.06	28.06	18.72	8.85	3.71	189.84x			





SP-42 - Discharge of Boulder Creek at Mouth, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 512 Square Miles										Altitude 4,880 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN							
1927						P	5.2	5.7	4.6	1.8	5.2	0.3									
1928	2.0	2.0	3.1*	3.1*	2.4	4.1	2.7	22.3	14.8	5.8	1.4	0.2	53.9	156.5							
1929	0.6	1.1	3.4*	5.3*	5.0E	4.6*	3.2	2.5	1.5	1.8	2.1	1.2	33.0	95.3							
1930	1.3	2.3	4.4*	5.2*	5.7	2.3	2.7	0.7	1.3	1.0	5.8	0.7	35.4	97.5							
1931	1.2	1.3	2.6*	2.2*	1.2	2.1	2.8	8.6	4.2	0.2	0.2	0.2	26.8	73.2							
1932	0.2	0.2	0.4	0.8	0.7	0.4*	1.1	0.4	0.9	0.6	0.2	0.1	6.0	17.5							
1933	0.2	0.1	0.1	0.6	0.6*	0.3	1.5	19.8	6.7	0.4	0.1	0.8	31.2	91.0							
1934	0.2	0.1	0.5	1.4	2.0	1.7	3.4	5.2	0.3	0.1	0.1	0.1	15.1	44.1							
1935	0.1	0.1	0.1	0.2	0.2	0.2	0.1	7.3	12.1	0.3	0.1	0.5	21.3	62.2							
1936	0.7	1.6	2.6	2.2	1.7*	1.6*	4.0	4.0	7.4	0.3	1.4	0.3	27.8	81.1							
1937	2.3	1.7	4.0	3.4E	3.3E	2.9	4.0	1.8	7.9	2.5	0.3	0.2	34.3	100.1							
1938	0.3	0.3	0.9	1.0	1.9	0.7	6.4	27.9	14.2	5.5	0.2	26.2	85.5	249.5							
No. Items	11	11	11	11	11	11	12	12	12	12	12	12									
Mean	0.83	0.98	2.01	2.31	2.25	1.90	3.09	8.85	6.32	1.69	1.42	2.62	#34.27								
% Mean																					
Annual	2.42	2.86	5.87	6.74	6.57	5.54	9.02	25.82	18.44	4.93	4.14	7.65	100.00								



SP-43 - Discharge of North Boulder Creek at Silver Lake, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 8.7 Square Miles      Altitude 10,100A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1913											P	1.7		
1914	0.6	0.4	0.3	0.2	0.2	0.2	0.2	1.5	6.3	4.8	2.7	1.1	18.5	84.1
1915	0.4	0.3	0.3	0.3	0.3	0.4	0.5	1.0	3.6	4.5	2.5	1.6	15.7	71.4
1916	0.7	0.4	0.3	0.3	0.3	0.2	0.2	0.5	2.2	2.6	1.9	0.8	10.4	47.3
1917	0.4	0.4	0.3	0.4	0.4	0.4	0.1	0.4	2.3	4.8	2.7	1.1	13.7	62.3
1918	0.8	0.5	0.3	0.3	0.3	0.3	0.3	1.0	6.2	4.7	2.7	1.1	18.5	84.1
1919	1.0	0.7	0.5	0.4	0.2	0.3	0.3	1.0	2.8	3.0	1.9	1.5	13.6	61.8
1920	0.9	0.6	0.4	0.3	0.2	0.1	0.1	1.2	5.4	9.6	11.6	4.2	34.6	157.3
1921	3.6	3.6	1.4	1.3	0.9	1.2	1.2	2.3	8.0	P	P	1.7		
1922	2.8	1.9	1.6	1.2	0.6	1.0	1.5	2.4	5.8	4.0	3.2	3.4	27.4	124.5
1923	3.0	2.3	1.7	0.5	0.3	0.5	0.3	0.9	4.2	5.3	4.9	2.7	27.3	124.1
1924	0.9	1.0	1.0	1.0	1.0	1.2	1.1	1.5	P			P		
1925	3.2	2.8	2.6	2.6	2.3	2.4	1.8	2.2	4.0	3.1	2.3	1.6	28.9	131.4
1926	1.1	0.8	0.5	0.4	0.4	0.3	0.4	2.2	5.7	6.0	4.0	1.7	23.5	106.9
1927	1.2	1.1	1.0	0.8	0.8	1.1	1.0	2.4	4.4	4.4	1.8	1.6	21.6	95.2
1928	1.8	0.8	0.3	0.4	0.3	0.4	0.4	1.7	4.5	5.8	2.5	0.8	19.7	89.5
No. Items	15	15	15	15	15	15	15	15	14	13	13	15		
Mean	1.42	1.17	0.83	0.69	0.57	0.67	0.63	1.48	4.44	4.82	3.44	1.77	#22.00	
% Mean														
Annual	6.77	5.32	3.77	3.14	2.59	3.05	2.86	6.73	20.18	21.91	15.64	8.04	100.00	





SP-43A - Discharge of North Boulder Creek near Nederland, Colorado

Drainage Area 24.6 Square Miles											Altitude 8,300.4 Feet			
Unit: Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1929									P	5610	3290	2110		
1930	1060	278	0	0	0	0	881	2270	5950	3620	4750	1340	20,149	107.9
1931	290*	18 E	18 E	18 E	17 E	18 E	121	2330	6720	3050	1630	643	14,573	79.6
No. Items	2	2	2	2	2	2	2	2	2	3	3	3		
Mean	675.0	148.0	9.0	9.0	8.5	9.0	501.0	2300.0	6335.0	4093.3	3223.3	1364.3	#16675.4	
% Mean														
Annual	3.61	0.79	0.05	0.05	0.05	0.05	2.68	12.32	33.92	21.92	17.26	7.30	100.00	

SP-43B - Discharge of Middle Boulder Creek above Cardinal Creek, Colorado

Drainage 32.3 Square Miles												Altitude 8,183 Feet		
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1907									18.7	20.0	5.3	1.8		
1908	1.5	0.6	0.3											
1911						0.3*	1.1	6.4	13.6	7.7	2.1	1.1		
1912	1.4	0.7	P					7.7*	17.1	14.4	4.8	1.6		
1913	1.4	0.8	0.3					P	7.4	5.1	2.0	2.5		
1914	2.1*	1.0*	0.3E	0.3E	0.4E	0.5	1.5	11.7	21.2	7.2	3.1	1.5	51.5	120.7
1915	1.2	0.7	0.3	0.2	0.2	0.2	1.7	7.2	15.6	9.6	3.5	2.0	40.4	94.7
1916	1.6	0.8	0.5	0.3	0.3	0.7	1.6	5.0	10.8	6.3	3.5	1.6	33.0	77.3
1917	1.4	0.8	0.4											
No. Items	7	7	6	3	3	4	4	5	7	7	7	7		
Mean	1.51	0.77	0.35	0.27	0.30	0.42	1.48	7.60	14.63	10.14	3.47	1.73	#42.67	
% Mean.														
Annual	3.54	1.81	0.82	0.63	0.70	0.98	3.47	17.81	34.29	23.77	8.13	4.65	100.00	



SP-45 - Discharge of Middle Boulder Creek at Nederland, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 38, Square Miles		Altitude 8,180 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1908				0.1	0.2E	0.4E	1.7E	3.8	10.6	7.0	4.7	1.6				
1909	1.0	0.8	0.5	0.4	0.3	0.5	1.3	6.7	19.9	12.7	5.2	2.3	51.6	133.0		
1910	1.4	0.8	0.5*	0.3*	0.3	0.9	2.2*	5.3	7.9	4.0*	1.7*	1.2	26.5	68.3		
1911	0.7	0.5	0.4													
1917				0.3	0.2	0.2	0.9	4.6	16.5	10.4	3.3	1.1				
1918	0.7	0.6	0.5	0.4	0.3	0.5	1.2	10.3	11.8	11.0	4.2	1.8	43.3	111.6		
1919	1.7	1.1	0.5	0.3	0.2	0.3	2.0	9.2	8.0	4.4	1.7	1.2	30.6	78.9		
1920	0.8	0.8	0.4	0.3	0.3	0.3	0.5	9.6	15.0	10.0	5.8	2.1	46.0	118.6		
1921	1.0	0.9	0.4	0.3	0.3	0.6	1.3	11.0	23.6	8.7	5.0	1.8	54.9	141.5		
1922	0.7	0.5	0.6	0.4	0.3	0.3	0.8	5.9	10.9	5.0	2.4	0.8	28.6	73.7		
1923	0.8	0.6	0.5	0.3	0.2	0.3	1.1	7.4	16.8	12.9	4.5	1.5	46.9	120.9		
1924	1.9	1.2	0.6	0.4	0.4	0.4	1.5	9.6	16.4	7.8	2.1	1.0	43.3	111.6		
1925	1.6	0.9	0.5	0.3	0.3	0.4	1.8	5.5	4.1	4.8	3.1	2.7	26.0	67.0		
1926	1.6	1.4	0.7	0.4	0.3	0.4	2.4	13.6	17.2	10.6	5.0	1.3	54.9	141.5		
1927	0.9	0.6	0.4	0.2	0.2*	0.3	1.8	9.2	10.9	10.4		1.6				
1928	1.6	0.9	0.6	0.4	0.4	0.4	0.9	10.5	12.1	10.9	4.0	1.2	43.3	113.2		
1929	1.0	0.6	0.3	0.3	0.2	0.3	0.5	5.6	13.7	8.1	5.0	2.8	38.4	92.0		
1930	1.7	0.9	0.4	0.4	0.3	0.4	2.8	5.2	11.4	6.2	4.8	1.6	36.1	93.1		
1931	1.0	0.5	P		0.2	0.2	0.7	5.9	11.8	3.6	1.7	0.8				
1932	1.0	0.5*	0.2E	P		0.3	1.1	7.6	12.1	7.2	2.2	0.7				
1933	0.7	0.5	0.4*	0.2E	0.2E	0.3*	0.6	6.0	18.4	6.7	1.8	1.7*	37.5	96.7		
1934	0.6	0.3	0.3	0.6*	0.3E	0.4*	2.4	10.3	4.9	1.6	0.8	0.6	23.1	59.6		
1935	0.6	0.5	0.3	0.3	0.3	0.3	0.9	4.2	17.8	11.2	3.1	1.2	40.7	104.9		
1936	0.7	0.6	0.3	0.3	0.3	0.3	2.8	12.6	14.6	7.4	4.0	1.3	45.2	116.5		
1937	1.1	0.7	0.4	0.1E	0.2E	0.3E	1.5*	8.5	10.3	5.8	2.4	1.4	32.7	84.3		
1938	1.1	0.9	0.6	0.5	0.3	0.5	1.8	7.9	18.5	9.2	3.3	2.9	47.5	122.5		
No. Items	24	24	23	23	24	25	25	25	25	25	24	25				
Mean	1.08	0.73	0.45	0.35	0.27	0.38	1.46	7.84	13.41	7.90	3.41	1.53	#38.79			
% Mean																
Annual	2.78	1.88	1.16	0.85	0.70	0.98	3.76	20.21	34.57	20.37	8.79	3.95	100.00			





SP-46A- Discharge of Fourmile Creek at Mouth, Colorado

Unit: Acre-Feet		Drainage Area 42A Square Miles										Altitude 5,800A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1887														
1888	P										P	436		
No. Items		1												
Mean		436.0 #436.0x												

SP-46B - Discharge of South Boulder Creek at Rollinsville, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 39 Square Miles											Altitude 8,500 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1911				0.5E	0.4E	0.5E	1.0*	6.4	9.0	5.9	2.5	1.6		
1912	2.2	1.2	0.5E	0.4E	0.3E	0.4E	2.4*	7.9	18.1	11.1	3.0	1.2	48.7	111.5
1913	1.0	0.6*	0.4E				P	10.9	11.5	4.4	1.6	2.3		
1914	2.4	1.7	0.7E	0.6E	0.6E	0.7E	3.0	15.5	21.2	9.4	3.0	1.1	59.9	137.1
1915	P	0.9	P			0.4*	2.4	10.4	18.8	9.9	2.9	1.4		
1916	1.2	0.9	0.5	0.5	0.5	1.0	1.6	6.5	14.7	6.6	3.3	1.2	38.5	88.1
1917	1.2	0.9	0.8	P	P	P	P	6.1	17.1	10.4	2.2	0.8		
1918	0.5	0.7	P	P	P	P	1.8							
No. Items		7	5	4	4	5	6	7	7	7	7	7		
Mean		1.42	0.99	0.58	0.50	0.45	2.03	9.10	15.77	8.24	2.64	1.37	#43.69	
% Mean														
Annual		3.25	2.27	1.33	1.14	1.03	4.65	20.83	36.10	18.86	6.04	3.13	100.00	

1910 Record - 2 discharge measurements and 17 gage heights.



SP-47 - Discharge of South Boulder Creek at Eldorado Springs, Colorado

Unit: 1,000 Acre-Feet														Drainage Area 114 Square Miles														Altitude 5,800 Feet													
														ANNUAL														ANNUAL													
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL																												
1888							P	8.3	11.4	8.1	5.8	3.2																													
1889	P							P	20.4	9.3	2.4	1.2																													
1890	1.2	P						P	20.8	9.2	3.9	2.1																													
1891	P						4.9	22.9	21.2	8.6	2.8	1.2																													
1892	P							P	22.3	14.3	3.8	1.2																													
1893	1.1																																								
1896							4.3	13.5	12.1	4.6	2.6	2.2																													
1897	1.4							P	23.9	14.4	7.9	2.6																													
1898	2.4	2.1						11.9	17.0	8.4	2.6	1.3																													
1899	1.2	1.1					6.8	17.1	24.8	14.9	5.6	2.1																													
1900									21.2	5.7	1.8	0.5																													
1901							2.8	P	13.6	7.3	3.0	P																													
1904										P	4.1	2.3																													
1905	1.5	1.1	0.9*	0.2*	0.2*	0.9*	8.5	19.9	21.0	6.5	2.0	0.9																													
1906	0.6	0.3	0.3*				5.6	17.9	19.7	9.9	2.9	3.0																													
1907	3.4	2.2	1.4				4.4	17.6	25.3	15.9	3.6	1.5																													
1908	1.5	0.9	0.9	0.9	0.7	1.0	2.3	4.9	10.1	5.0	3.4	1.2																													
1909	1.1	1.0	0.9	0.7	0.6	1.1	6.3	15.9	34.0	15.6	6.0	6.0																													
1910	2.2	1.2	0.8	0.6	0.4	1.3	2.1	6.4	7.0	3.1	1.5	0.7																													
1911	0.7	0.5	0.4	0.2	0.2	1.0	1.7	8.6	14.0	7.4	2.3	1.0																													
1912	1.0	0.8	0.5	0.2	0.3	0.5	2.4	12.5	20.2	13.1	3.9	1.7																													
1913	1.4	1.0					3.5	10.5	10.7	4.4	1.6	2.0																													
1914	2.2	1.4	P			1.8	10.5	36.2	24.3	10.0	5.1	1.8																													





SP-47 - Discharge of South Boulder Creek at Eldorado Springs, Colorado (Continued)

Unit: 1,000 Acre-Feet										Drainage Area 114 Square Miles				Altitude 5,500 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	AUG.	SEPT.	AUG.	SEPT.	AUG.
1915	2.0	1.2				P	7.6	17.7	25.9	11.1	3.3	2.2					
1916	2.1	1.6	1.5	1.1	1.0	1.4	2.9	9.4	13.3	5.6	3.7	1.4			45.0	79.5	
1917	2.2	1.4				1.3	3.6	12.7	21.1	9.2	3.0	1.1					
1918	0.8	1.0	P			1.7	3.8	15.5	25.3	9.7	2.8	2.3					
1919	2.5	1.7	0.9			0.8	4.7	13.7	6.7	4.7	4.1	1.7					
1920	0.9	0.6	0.6	0.7*	0.6*	1.2*	4.1	22.3	13.7	7.3	3.7	1.7			6.0	110.9	
1921	1.1	0.7	0.5*			1.7	6.4	23.3	37.2	10.2	2.9	1.0					
1922	1.0	0.2	0.3*			P	2.3	9.1	12.4	4.0	1.7	0.8					
1923	0.7	0.7	0.6	0.6	0.6	1.2	3.4	14.5	46.4	13.5	6.3	2.6			70.9	125.2	
1924	2.7	3.3	2.1	1.2	1.4	1.4	8.6	22.3	25.2	6.3	0.8	0.5			75.5	133.9	
1925	1.2	1.0	0.8E	0.5E	0.7E	1.0*	2.1	6.1	7.2	3.2	1.6	2.4			27.8	49.1	
1926	1.6	1.6	1.1	0.9	0.9	1.6	10.7	24.7	20.8	10.0	3.4	0.9			78.2	138.1	
1927	1.0	1.1	0.8	0.9	0.9	1.1	2.8	13.6	14.3	6.3	2.9	1.1			46.8	82.7	
1928	1.2	1.1	1.0	0.7	0.6	1.0	2.1	18.2	16.7	10.0	2.2	1.0			55.8	98.6	
1929	1.0	0.8	0.5E	0.4E	0.4E	1.0	2.1	6.8	15.5	7.0	5.2	2.6			43.3	76.5	
1930	1.6	1.9	0.9*	0.5*	0.5E	0.8E	5.8	9.3	15.9	5.8	5.6	2.0			50.6	89.4	
1931	1.2	0.9*	0.6E	0.4E	0.4E	0.9E	2.5*	10.2	15.2	3.7	2.1	0.8			38.9	68.7	
1932	0.8	0.7*	0.3E	0.2E	0.3E	0.7E	1.8*	10.2	13.2	6.3	1.8	0.6			36.9	65.2	
1933	0.5	0.4*	0.2E	0.1E	0.1E	0.4E	2.0*	19.2	24.4	7.1	1.8	1.6			57.8	102.1	
1934	0.8	0.4*	0.2E	0.4E	0.5E	1.1*	3.9	13.0	6.8	1.8	0.8	0.5			30.2	53.3	
1935	0.4	0.5	0.3E	0.3E	0.4	0.5	1.5	12.1	20.1	8.9	3.0	1.1			49.1	86.7	
1936	0.8	0.8*	0.7*	0.4	0.5*	1.1	5.2	18.9	14.2	5.6	6.6	2.2			57.0	100.7	
1937	2.5	1.6	0.6	0.3	0.4	0.7	2.7	12.4	18.4	5.4	1.7	1.0			47.7	84.2	
1938	1.0	0.9	0.8	0.6	0.4	0.6	6.0	21.3	30.7	10.0	2.3	7.4			82.0	144.8	
No. Items	39	36	29	24	24	29	38	39	42	45	46	45					
Mean	1.40	1.10	0.74	0.54	0.54	1.06	4.33	14.90	18.73	8.18	3.32	1.78			36.62		
% Mean																	
Annual	2.47	1.94	1.31	0.95	0.95	1.87	7.65	26.32	33.08	14.42	5.87	3.14			100.00		

Prior to 1909 known as South Boulder Creek near Marshall.





SP-48 - Discharge of Big Thompson River near Estes Park, Colorado

Drainage Area 157 Square Miles														Altitude 7,424 Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1930									P	14.1	19.4	6.4			
1931	3.9	2.0*	0.8E	0.7E	0.6E	0.9E	2.1*	11.2	16.3	13.6	8.7	4.2	65.0	67.3	
1932	2.9	1.7*	0.9E	0.7E	0.8E	0.9E	1.4*	17.2	28.2	21.5	9.5	2.7	88.4	91.6	
1933	1.5	P	P	P	P	P	P	12.9	52.7	22.4	8.5	5.3			
1934	2.7	1.2	1.2E	0.9E	0.8*	0.8	3.2	18.1	13.5	6.4	4.4	2.3	55.5	57.5	
1935	1.4	1.0*	1.0E	0.9E	0.7E	0.9*	1.3	11.4	36.8	29.4	9.5	3.7	98.0	101.5	
1936	2.1	1.8	1.0*	1.0E	1.0E	1.5E	6.0*	26.3	36.7	22.4	19.4	4.7	124.1	128.5	
1937	3.3	2.0	1.2	0.6E	0.7E	1.0E	3.2	21.5	39.0	18.5	7.0	3.6	101.6	105.2	
1938	2.8	1.6	1.4*	1.1*	0.7*	1.2	4.3*	21.1	42.6	22.0	8.9	15.3	123.0	127.4	
No. Items	8	7	7	7	7	7	7	8	8	9	9	9			
Mean	2.58	1.61	1.07	0.84	0.76	1.03	3.07	17.49	33.22	18.92	10.59	5.36	796.34		
% Mean															
Annual	2.67	1.67	1.11	0.87	0.79	1.07	3.18	18.11	34.41	19.60	10.97	5.55	100.00		



SP-49 - Discharge of Big Thompson River below power-house near Drake, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 277 Square Miles      Altitude 2,700 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1917					P	P	P			P	P	P	
1918	2.5	2.0	1.8	1.1*	1.1*	1.7*	3.2	19.1					
1919			2.2*	1.6*	1.2*	1.6	3.5	15.1	14.9	13.2	8.3	6.6	
1920	3.6	2.7	2.2*	1.9	2.0*	1.4*	2.4E	17.8	57.8	32.9	17.3	10.5	150.9
1921	4.8	2.3*	1.5E	1.5*	1.2*	1.6*	7.3E	28.3	86.3	35.3	16.8	3.2	193.4
1922	3.7	2.3	2.0*	2.1*	1.6	1.8	3.4	18.8	39.9	19.9	12.9	5.1	113.5
1923	2.6	2.1	2.0*	1.4*	1.1*	1.6	4.9	27.5	84.5	62.1	21.8	9.8	221.4
1924	8.1	6.8	4.5	2.6*	2.0*	1.6*	9.2	40.2	92.1	40.7	8.8	4.2	221.5
1925	4.2	2.2	1.2*	1.2*	1.4	1.5	3.1	12.8	23.2	17.5	12.9	8.6	99.8
1926	8.4	4.4	2.2	1.4	1.0	1.5	18.9	54.3	69.6	44.6	15.1	5.3	226.7
1929	3.0	2.2	1.2				P	15.6	35.5	32.0	25.8	17.2	
1930	8.8	4.0	2.5	1.2*	1.3*	1.4*	5.9*	13.5	25.2	16.7	22.9	7.6	111.0
1931	4.6	2.8	1.3	0.7	0.7	0.9	2.5	16.2	33.7	14.0	8.7	5.2	91.3
1932	3.4	1.9	1.3	0.9	1.0	1.3	3.0	16.4	29.8	21.6	9.2	3.3	93.1
1933	2.2	1.4	0.8*	0.8	0.4	1.0	2.5	18.9	43.5	21.4	8.7	6.1	107.7
1934	3.4	1.9	1.6	1.1	1.2	1.4	4.0	23.6	15.2	7.3	4.8	2.7	68.2
1935	1.8	1.3	1.1	1.3	1.2	1.5	2.0	15.3	51.8	34.5	11.6	5.2	128.6
1936	3.8	2.4	1.4	1.2	1.2	1.6	7.8	30.6	47.7	26.8	23.9	6.8	155.2
1937	4.6	2.6	1.6	0.6	0.8	1.4	3.7	24.0	39.2	24.1	8.0	4.8	115.4
1938	3.9	2.5	2.0	1.5	1.1	1.6	5.1	25.8	55.6	25.8	9.5	27.3	161.7
No. Items	18	18	19	18	18	18	18	19	18	18	18	18	
Mean	4.30	2.66	1.81	1.34	1.19	1.47	5.15	22.83	46.98	27.25	13.81	8.06	1136.85
% Mean													
Annual	3.14	1.94	1.32	0.98	0.87	1.08	3.75	16.62	34.33	19.92	10.02	5.89	100.00

Note: 1917-1926 - At site 3 miles upstream; records equivalent.





# SP-50 - Discharge of Big Thompson River at Canon Mouth, Colorado

Unit: 1,000 Acre-Feet														Drainage Area 301 Square Miles														Altitude 5,400 Feet													
														APRIL-1938																											
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN																											
1927	3.4	2.1*	1.8*	1.4E	1.1E	1.6*	4.5	23.3	41.4	27.0	13.7	5.9	127.2	94.3																											
1928	4.8	2.9	1.9	1.8	1.4	2.0	2.7	40.6	48.0	40.3	13.0	4.0	163.4	121.2																											
1929	P							P	44.8	37.9	31.7	17.7																													
1930	8.8	F					5.8	13.0	26.1	18.1	26.1	7.7																													
1931	4.7*	P					2.7*	16.0	40.8	14.4	9.2	4.9																													
1932	3.2*	2.0*					3.3*	19.1	34.9	24.0	9.5	3.4																													
1933	2.3	2.1	0.9*	0.8*	0.4*	1.1E	2.6*	20.0	52.4	22.5	9.2	6.9	121.2	89.9																											
1938							F	29.1	62.6	26.5	10.7	32.6																													
No. Items	6	4	3	3	3	3	6	7	8	8	8	8																													
Mean	4.53	2.28	1.53	1.33	0.97	1.57	3.60	23.01	43.89	26.34	15.39	10.39	1134.32																												
% Mean																																									
Annual	3.36	1.69	1.13	0.99	0.72	1.16	2.67	17.07	32.55	19.54	11.41	7.71	100.00																												



SP-51 - Discharge of Big Thompson River near Arkins, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 305 Square Miles													Altitude 5,500 Feet												
													ANNUAL IN																									
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL % MEAN																									
1887											P	P																										
1888							P	7.1	25.5	15.1	10.0	3.7																										
1889	P							P	22.7	12.5	5.5	2.9																										
1890	2.8							P	31.5	27.2	24.2	9.0																										
1891	4.4	P							P	23.6	9.8	5.6																										
1892	P							P	41.9	30.6	9.3	3.1																										
1895								P	33.9	28.6	19.6	8.7																										
1896	4.9							13.4	17.0	13.8	8.9	7.1																										
1897	4.1							25.8	28.6	16.4	8.2	4.0																										
1898	1.0	1.6						10.1	22.4	14.7	4.9	2.1																										
1899	P	0.5					7.8	18.6	50.5	40.7	17.1	5.0																										
1900	3.3						23.0	76.2	72.0	20.6	7.8	4.2																										
1901							P	36.9	51.1	32.6	16.0	4.3																										
1902							1.7	17.8	27.7	9.9	4.9	4.4																										
1903	5.2						P	14.8	44.3	31.7	8.9	P																										
1904										P	13.9	7.1																										
1905	4.6	3.3	3.0	1.8			10.1	28.3	61.7	29.0	P	P																										
1906	2.7	2.5	2.6			P	10.4	26.3	42.5	37.7	12.7	P																										
1907	7.8	8.8	5.4				P	24.3	57.1	61.2	20.3	P																										
1908							P	8.2	22.7	22.1	19.0	7.4																										
1909	3.2	3.6					P	22.8	70.6	48.3	16.3	11.8																										
1910	3.4	2.3	1.7	1.8	1.4	2.4	3.2	14.6	23.1	13.4	5.7	6.8	79.8	61.2																								
1911	2.7	1.6	1.6					P	32.4	20.0	6.8																											
No. Items	13	8	5	2	1	1	6	15	20	21	21	17																										
Mean	3.85	3.02	2.86	1.80	1.40	2.40	9.37	23.01	38.96	26.18	11.90	5.72	#130.47																									
% Mean																																						
Annual	2.95	2.32	2.19	1.38	1.07	1.84	7.18	17.64	29.86	20.07	9.12	4.38	100.00																									









SP-52A - Discharge of Little Thompson River near Berthoud, Colorado

Drainage Area 100 Square Miles														Altitude 5,000 Feet	
Unit: Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	
1929															
1930	205	258	184*	25*	56*	117	516	732	387	476	1720	791	8986	110.5	
								P		106	5280	1120*			
No. Items	1	1	1	1	1	1	1	1	2	2	2	2			
Mean	205.0	258.0	184.0	25.0	56.0	117.0	516.0	732.0	390.5	291.0	3500.0	955.5	47250.0		
% Mean															
Annual	2.84	3.57	2.54	0.35	0.77	1.62	7.14	10.12	5.40	4.02	43.41	13.22	100.00		

SP-52B - Discharge of Cache La Poudre River above Chambers Lake Cutlet, Colorado

Unit: 1,000 Acre-Feet												Drainage Area 91 Square Miles		Altitude 5,432 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AVG. IN % MEAN	
1929															
1930	4.3	1.5*	0.9*	0.7*	0.4*	0.6*	4.8*	19.5	57.4	25.0	9.4	6.7			
1931	2.2	1.5*	0.5*	0.1E	0.1E	0.2E	0.6*	14.4*	32.7	9.0	10.0	4.5	83.8	95.7	
									31.4	10.3	2.4	1.2	65.1	70.1	
No. Items	2	2	2	2	2	2	2	2	3	3	3	3			
Mean	3.25	1.50	0.70	0.40	0.25	0.40	2.70	16.95	40.50	14.77	7.33	4.13	#92.88		
% Mean															
Annual	3.50	1.61	0.75	0.43	0.27	0.43	2.91	18.25	43.61	15.90	7.89	4.45	100.00		
See Big South Cache La Poudre near Home for State Engineer's record.															



SP-52C - Discharge of Cache La Poudre River near Elkhorn, Colorado

Drainage Area 214 Square Miles													Altitude 7,150 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN.
1909				1.9	1.6	2.2	2.3	16.8	112.0	62.1	21.4	13.1		
1910	5.6	3.2	2.1	1.8	1.4	2.3	7.4	37.3	50.3	16.7	6.3	7.6	142.0	76.1
1911	3.8	2.8	2.3	1.8	1.2	1.9	2.6	33.4	85.5	28.8	8.2	4.4	174.5	93.5
1912	5.2	3.2	1.6											
No. Items	3	3	3	3	3	3	3	3	3	3	3	3		
Mean	4.87	3.07	2.00	1.83	1.40	2.13	4.10	29.17	81.87	25.87	11.27	8.27	#106.65	
% Mean														
Annual	2.61	1.65	1.07	0.98	0.75	1.14	2.20	15.63	43.86	19.22	6.41	4.48	100.00	

SP-52D - Discharge of Cache La Poudre River near Log Cabin, Colorado

Drainage Area 235 Square Miles												Altitude 7,092 Feet		
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN
1929								P	120.0	53.4	23.6	16.2		
1930	8.4	3.6	2.2*	1.6*	0.9*	1.5*	9.2	34.9	57.3	20.0	18.6	10.4	168.6	89.4
1931	8.5	1.4	0.9*	0.6*	0.5*	0.7*	1.6*	22.8	60.7	21.3	12.2	3.3	134.5	71.3
No. Items	2	2	2	2	2	2	2	2	3	3	3	3		
Mean	8.45	2.50	1.55	1.10	0.70	1.10	5.40	28.35	79.33	31.57	18.13	9.97	#188.65	
% Mean														
Annual	4.48	1.33	0.82	0.53	0.37	0.58	2.86	15.29	42.05	16.74	9.61	5.29	100.00	





SP-52E - Discharge of Cache La Poudre River at Ft. Collins Water Works, Colorado

Drainage Area 495 Square Miles											Altitude 5,400 Feet			
Unit: 1,000 Acre-Feet											ANNUAL IN			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1909				2.7	2.3	4.0	8.4	30.0	153.0	79.9	24.0	15.4		
1910	7.0	4.5	3.1	3.2	2.2	3.9	9.3	45.9	59.1	19.2	8.8	8.8	175.0	69.3
1911	5.3	4.0	2.9	3.2	2.5	3.4	4.7	55.1	101.0	44.5	14.1	6.4	247.1	97.9
1912	8.5	3.8	3.0											
No. Items	3	3	3	3	3	3	3	3	3	3	3	3		
Mean	6.93	4.10	3.00	3.03	2.33	3.77	7.47	43.67	104.37	47.87	15.63	10.20	#252.37	
% Mean														
Annual	2.75	1.63	1.19	1.20	0.92	1.49	2.96	17.30	41.36	18.97	6.19	4.04	100.00	

SP-53 - Discharge of Cache La Poudre River at Canon Mouth, Colorado

Drainage Area 1,048 Square Miles											Altitude 5,070 Feet			
Unit: 1,000 Acre-Feet											ANNUAL IN			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1881									P	53.9				
1884						P	13.0	156.0	286.4	131.8	48.7	18.2		
1885	P						P	87.2	173.2	114.2	40.4	16.2		
1886	P						P	80.5	111.6	44.1	20.8	11.0		
1887	P							P	P	45.0	18.8	10.1		
1888	7.4*					P	10.6	29.4	P	24.6	13.4	6.2		
1889	P			9.5	6.1	3.3	6.7	47.4	79.7	31.4	11.5	4.1		
1890	4.3	5.2	4.0	5.0	4.4	5.2	11.9	64.4	76.4	39.8	17.3	6.1	244.1	73.6
1891	4.9	3.6	4.0	5.7	4.2	3.6	8.5	72.3	113.0	33.3	14.0	8.2	275.8	88.8
1892	7.3	5.0	4.8	3.9	6.7	4.8	P	P	90.0	45.2	P			
1893								P	P	37.7	P			
1894								P	122.8	51.4	20.3	9.8		



SP-53 - Discharge of Cache La Poudre River at Canon Mouth, Colorado (Continued)

Unit: 1,000 Acre-Feet														Drainage Area 1,048 Square Miles														Altitude 5,070 Feet													
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN																											
1895	6.4	P						P	P	P	30.4	P																													
1896									P	28.1	16.7	P																													
1897							P	P	P	46.1	P	P																													
1898	P						P	P	P	29.4	P	4.8																													
1899	P							P	156.6	88.6	34.2	12.6																													
1900	P						P	172.7	175.1	44.3	16.3	8.9																													
1901	P						P	108.0	116.4	P	20.7	9.0																													
1902	P								P	25.3	10.5	9.9																													
1903	P						P	47.4	161.4	P																															
1904							9.4	P	P	64.2	20.1	10.5																													
1905	P						18.9	63.4	161.1	55.8	20.9	9.4																													
1906	P						P	66.6	98.3	57.5	P	P																													
1907	P						7.1	39.7	165.3	109.1	29.1	11.2																													
1908	P						8.0	P	88.8	P	47.1	13.6																													
1909	P						14.2	43.2	220.3	113.8	28.3*	19.7																													
1910	8.6*							P	56.5	16.5	7.9	9.0																													
1911	9.2	5.9	2.9	3.0	2.4	2.5	4.1	50.4	101.6	47.0	13.4	10.3	252.7	111.1																											
1912	7.7	3.9	2.8	2.7	3.0	4.2	3.7	48.2	130.1	75.6	26.4	12.6	320.9	109.9																											
1913	10.0	2.8					P	56.6	73.4	32.5	16.3	12.1																													
1914	11.3	P				P	12.8	132.0	149.0	50.3	20.6	11.6																													
1915	5.6	4.0					P	36.3	90.4	43.0	16.8	12.4																													
1916	7.1	8.8	P			P	9.0	52.1	101.0	46.4	24.4	15.6																													
1917	7.0	P				P	8.0	79.3	238.0	126.0	24.1	17.4																													
1918	6.8	4.4	4.4			P	7.7	48.1	151.0	59.0	16.9	10.4																													
1919	5.4	4.1				P	6.8	43.0	43.1	22.5	19.4	7.9																													



SP-53 - Discharge of Cache La Poudre River at Canon Moutn, Colorado (Continued)

Unit: 1,000 Acre-Feet										Drainage Area 1,048 Square Miles			Altitude 5,070 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	A. ANNUAL	A. MEAN	
1920	4.3	3.6	3.2	2.5	2.6	2.2	6.1	68.2	159.0	72.6	25.9	14.1	364.3	117.3	
1921	5.6	4.1	2.9	2.0	1.7	2.7	12.1	81.8	182.0	64.6	24.1	12.6	396.2	127.6	
1922	4.2	3.6	3.4	1.9	1.6	2.2	6.0	41.3	93.4	23.0	19.6	5.4	205.6	64.2	
1923	3.1	2.7	2.9*	1.6*	1.3*	2.7 *	8.1	55.2	217.0	101.0	30.9	19.3	445.8	143.6	
1924	10.6	5.0	2.5E	1.8E	1.4E	6.2E	25.5	84.8	219.0	59.9	21.6	8.6	446.9	142.9	
1925	6.9	4.3	2.8E	2.5*	2.3*	4.0	9.7	47.7	71.4	32.1	21.2	17.4	222.3	71.6	
1926	9.0	6.0	4.7	4.0*	3.6*	3.7	18.0	98.4	132.0	67.0	23.4	11.6	381.4	122.8	
1927	3.2	2.9	3.0	2.8*	2.4	2.1	7.3	52.3	102.0	48.5	19.0	15.4	260.9	84.0	
1928	5.3	3.1	3.1*	2.8*	2.7*	4.1	5.7	69.5	107.0	67.6	19.4	11.7	302.0	97.3	
1929	4.4	3.2	2.2*	1.7*	1.5*	3.4*	5.6	39.4	149.8	59.8	27.5	22.9	321.4	103.5	
1930	8.4	4.7	0.8*	0.6*	0.7*	0.9	9.5	44.1	70.2	24.2	40.0	18.0	222.1	71.5	
1931	13.0	3.6	1.8*	0.9*	1.1*	2.5	7.1	31.5	66.0	25.7	17.2	6.4	176.8	56.9	
1932	4.9	3.7*	1.7*	1.2*	1.3*	2.3*	5.8	65.2	102.0	49.6	18.6	5.1	261.4	84.2	
1933	3.6	2.1	1.3*	1.2*	1.4*	2.3	3.5	42.0	142.0	45.7	17.0	14.5	276.6	89.1	
1934	3.2	2.3	2.1	2.2	2.1	2.4	7.0	65.2	26.3	12.4	7.1	2.9	135.2	43.5	
1935	3.0	2.2	1.4	1.3	1.4	1.2	3.3	38.3	122.8	66.8	26.0	12.8	280.5	90.3	
1936	5.1	3.2	2.3	2.0*	2.0*	2.2	10.4	86.2	98.1	41.9	29.1	11.8	294.3	94.8	
1937	5.4	2.7	1.5	1.1	1.4	2.0	5.0	56.6	79.2	36.0	19.0	12.4	222.3	71.6	
1938	5.9	3.6	3.0	2.0	1.8	2.4	9.6	73.5	152.1	53.8	25.3	26.4	359.4	115.7	
No. Items	34	29	25	25	25	25	36	42	46	52	49	48			
Mean	6.41	3.94	2.78	2.64	2.44	3.00	9.05	65.85	126.56	53.57	22.42	11.84	#310.50		
% Mean															
Annual	2.06	1.27	0.90	0.35	0.79	0.97	2.91	21.21	40.76	17.25	7.22	3.81	100.00		





SP-54 - Discharge of Cache La Poudre River near Mouth, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 1,840 Square Miles		Altitude 4,664 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1903							P 8.6	4.7	47.2	4.1	2.4	3.2				
1904	5.7									P	2.6	2.6				
1905	6.5	6.0														
1914																
1915	8.1	6.7			6.6	10.0	15.4	P	P	2.2	2.5	2.6				
1916	14.8	10.9	P			P	8.4	8.4	5.1	3.0	6.1	5.9				
1917	11.3	9.7	8.2	7.3	6.3	7.3	6.8	53.7	142.0	25.3	3.9	4.3	286.6	369.5		
1918	10.9	8.9	8.4	P	7.6	7.4	6.6	4.8	39.2	16.1	4.0	7.7				
1919	11.8	8.5	P	P	7.9	3.1	5.0	2.5	1.8	2.6	2.0	2.7				
1920	4.1	5.0	P													
1924								P	94.6	2.0	1.4	2.3				
1925	6.7	6.2	6.0	5.0	5.6	4.9	1.9	1.3	4.9	2.5	2.5	1.1	48.6	62.7		
1926	6.0	6.4	5.5*	4.8	5.8	5.1	18.0	7.3	32.0	5.5	1.5	2.5	100.4	129.4		
1927	8.6	6.8	6.4	5.7	4.9	6.4	7.1	1.8	3.6	4.6	3.4	2.8	62.3	80.3		
1928	8.6	7.7	6.4	5.7	5.1	4.9	3.1	14.8	20.1	19.4	2.6	1.9	130.5	129.3		
1929	7.6	9.6	7.8	6.0*	5.0*	7.4*	6.4	4.2	7.1	2.0	2.3	2.5	71.2	92.2		
1930	6.6	8.6	7.8	5.8*	9.0*	7.2	5.7	2.2	2.4	0.9	6.6	2.9	65.7	84.7		
1931	8.1	6.6	6.5	5.3	4.2	4.8	3.6	1.8	1.9	9.5	1.0	0.8	54.1	69.6		
1932	2.5	6.1	4.6	3.4	3.3	3.8	1.7	0.9	1.6	4.9	1.5	0.8	35.1	45.3		
1933	2.4	4.9	3.5	3.4	2.8	3.0	1.1	1.8	13.7	1.3	1.8	1.7	41.4	53.4		
1934	3.6	4.6	5.3	5.0	4.0	3.8	1.5	0.9	1.3	1.2	0.7	0.8	32.7	42.2		
1935	0.4	0.4	2.1	2.3	2.1	2.1	0.5	4.3	27.0	0.9	1.2	1.9	45.2	58.3		
1936	1.6	4.6	4.0	3.4	2.7*	3.8	1.6*	1.0	2.8	1.2	1.2	1.3	29.2	37.6		
1937	2.8	4.4	4.4	3.4	3.4	3.7	2.5	0.6	1.5	1.5	0.9	0.9	50.0	38.7		
1938	0.7	2.7	3.6	3.2	3.0	2.9	1.8	1.1	4.6	1.6	1.1	4.2	30.6	39.5		
No. Items	22	21	16	15	18	18	20	20	21	22	23	23				
Mean	6.34	6.44	5.66	4.65	4.97	5.37	5.36	6.22	21.93	5.28	2.50	2.94	#77.56			
% Mean																
Annual	8.17	8.30	7.30	6.00	6.41	6.92	6.91	8.02	28.28	6.81	3.22	3.66	100.00			



SP-54A - Discharge of So. Fk. Cache La Poudre River near Eggers, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 69.3 Square Miles										Altitude 7,900.4 Feet		
YEAR	OCT.	NOV.	DEC.	JAN. 1	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1929								P	14.9	10.6	6.1	4.4		
1930	2.0	1.0*	0.9*	0.7*	0.6*	0.6*	1.6*	4.7	10.2	4.8	5.7	1.8	34.6	90.4
1931	1.4	1.3*	0.5E	0.3E	0.3E	0.4E	1.1E	4.9*	11.9	5.2	3.9	1.6	32.3	85.2
No. Items	2	2	2	2	2	2	2	2	3	3	3	3		
Mean	1.70	1.15	0.70	0.50	0.45	0.50	1.35	4.50	12.33	6.87	5.23	2.60	25.18	
% Mean														
Annual	4.45	3.01	1.83	1.31	1.18	1.31	3.54	12.57	32.30	17.99	13.70	6.81	100.00	
See Little South Cache La Poudre near Eggers for State Engineers records.														

SF-54B - Discharge of No. Fk. Cache La Poudre River at Livermore, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 541 Square Miles					Altitude 5,717 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL IN			
													ANNUAL	% MEAN		
1929								F	14.9	0.7	2.1	1.8				
1930	0.8	0.7*	0.6*	0.4*	0.4*	0.5	1.6	10.2	4.3	0.9	8.1	2.2	30.7	120.7		
1931	1.7	0.9*	0.6E	0.5E	0.4E	0.6*	3.5	1.2	0.8	2.3	0.6	0.7	13.8	54.2		
No. Items	2	2	2	2	2	2	2	2	3	3	3	3				
Mean	1.25	0.80	0.60	0.45	0.40	0.55	2.55	5.70	6.67	1.30	3.60	1.57	25.44			
% Mean																
Annual	4.91	3.15	2.36	1.77	1.57	2.16	10.02	22.41	26.22	5.11	14.15	6.17	100.00			





SF-54C & D - Discharge of Lodgepole Creek at Civid (mouth), Colorado

Unit: 1,000 Acre-Feet			Drainage Area				Square Miles				Altitude 3,531 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	1.7E	2.1*	1.8	1.7E	1.9	1.6	2.2	1.3	1.2	0.3	0.5	0.8	17.1
1925												P	124.4
1926	0.5	0.5	0.4	0.4	0.7	P							
No. Items	2	2	2	2	2	1	1	1	1	1	1	1	
Mean	1.10	1.30	1.10	1.05	1.30	1.60	2.20	1.30	1.20	0.30	0.50	0.90	#15.75
% Mean													
Annual	8.00	9.45	8.00	7.64	9.45	11.64	16.00	9.45	8.73	2.18	3.64	5.32	100.00

Miscellaneous Discharges in Second-Feet

SP-21A	Tarryall Creek near Como.	Ref. W.S.P. 306 & 326	USGS
	1911: July 28th, 12 - Sept. 5th, 9.4; 5th, 5.8.		
	1912: April 5th, 0.0 - (Frozen to bottom.)		
SF-22A	Tarryall Creek at McLaughlin's Ranch near Hayman.	Ref. W.S.P. 326	USGS
	1910: Oct. 23rd, 9; 27th, 9; 30th, 7 - Nov. 5th, 19; 12th, 14; 13th, 14; 18th, 13; 22nd, 12; 23rd, 9 -		
	Dec. 15th, 9; 22nd, 5.2; 29th, 2.5.		
	1911: Jan. 11th, 1.6 - Mar. 21st, 4.5; 29th, 31 - Apr. 8th, 24; 26th, 31 - May 1st, 34; 11th, 2 -		
	June 20th, 31 - July 4th, 282; 14th, 65; 17th, 56; 25th, 56; 29th, 65 -		
	Aug. 2nd, 56; 11th, 28; 12th, 32; 18th, 25; 24th, 32; 26th, 28; 31st, 22 -		
	Sept. 1st, 19; 7th, 19; 14th, 12; 19th, 12; 26th, 12 - Oct. 4th, 19; 12th, 25; 14th, 22; 18th, 19;		
	26th, 32; 28th, 32 - Nov. 10th, 22; 15th, 19.		
	1912: Jan. 17th, 0.5 - Mar. 20th, 151; 23rd, 151 - Apr. 5th, 25; 14th, 84; 26th, 106 - May 9th, 39;		
	20th, 28; 24th, 25 - June 8th, 234; 10th, 294.		



Miscellaneous Discharges in Second-Feet (Continued)

SP-24A Michigan Creek near Jefferson.

1910: Oct. 17th, 5.9.

1911: Jan. 6th, 0 - Apr. 22nd, 25.3 - July 28th, 2.7 - Sept. 6th, 8.8; 6th, 8.0.

1912: April 5th, 50.

Ref. W.S.P. 286, 306 & 326 USGS

SP-25A Jefferson Creek at Jefferson.

1910: Oct. 17th, 1.2.

1911: Jan. 6th, 0 - April 22nd, 9.9 - Sept. 7th, 4.2; 7th, 3.8.

1912: April 5th, 2.

Ref. W.S.P. 286, 306 & 326 USGS

SP-27A Geneva Creek above Jackwhacker Creek.

1909: Aug. 17th, 19.7 - Oct. 19th, 6.6.

1910: July 18th, 6.4.

Ref. W.S.P. 286, 306 & 326 USGS

SP-27B Geneva Creek at old Geneva Smelter.

1909: Aug. 17th, 37 - Oct. 19th, 12.8.

1910: July 18th, 12 - Aug. 29th, 6.3.

1911: July 13th, 36.

Ref. W.S.P. 286, 306 & 326 USGS

SP-28A Smelter Creek near Grant.

1909: Aug. 17th, 12 - Oct. 19th, 3.6.

1910: July 18th, 2.2 - Aug. 29th, 1.8.

1911: July 13th, 12.7 - Nov. 2nd, 1.4.

Ref. W.S.P. 286, 306 & 326 USGS

CP-23B Duck Lake Creek near Grant.

1909: May 30th, 9.3 - June 13th, 35.1 - July 5th, 36.7 - Oct. 19th, 6.5 - Dec. 6th, 3.9; 6th, 4.5 - (Dec. 6th ice)

1910: Jan. 31st, 1 - Mar. 29th, 2 - May 10th, 8 - July 18th, 2.1 - Aug. 29th, 1.4.

1911: Nov. 2nd, 1.3.

Ref. W.S.P. 286, 306 & 326 USGS



TABLES OF MONTHLY DISCHARGES

Republican River Basin

Republican River

and

Tributaries

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Stations in Downstream Order





# REP-1 - Discharge of Republican River at Max, Nebraska

Unit: 1,000 Acre-Feet      Drainage Area 7,740\* Square Miles      Altitude 2,877 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1928						15.7	14.7	14.1	7.9	5.0	3.0	4.5		
1929	7.4	12.1			5.6	10.1	10.5	15.1	12.3	3.9	1.2	5.9		
1930	7.1	9.9			15.3	15.9	15.6	8.2	8.1	0.0	2.3	7.3		
1931	13.0	8.7	8.1	9.0	8.6	9.0	8.7	11.1	14.5	4.8	10.7	0.4	104.6	70.1
1932	3.0	8.1	9.8	11.1	8.2	14.7	7.4	12.2	1.5	4.9	42.2	2.1	101.5	68.0
1933	6.9	9.3	9.4	8.6	10.9	15.8	11.2	1.7	12.4	0.5	3.6	38.1	161.4	108.1
1934	8.1	6.6	11.4	10.4	9.6	12.1	7.7	232.8	159.2	14.8	10.2	0.6	93.2	62.4
1935	2.6	5.8	10.6	10.8	8.3	11.1	13.1	42.0	9.9	0.8	2.3	8.2	444.4	344.4
1936	4.4	8.3	10.2	8.3	8.9	19.6	7.4	14.1	8.6	1.6	1.4	0.6	119.3	79.9
1937	4.0	4.6	7.6	3.8	2.4	9.5	11.1	29.4	9.2	14.4	6.2	9.0	90.6	60.7
1938	4.1	4.8	6.9	6.8	8	10	10	10	10	10	11	17.5	147.3	83.3
No. Item	10	10	8	8	9	10	10	10	10	10	11	11		
Mean	6.06	7.82	9.25	8.60	9.42	13.15	10.74	38.07	24.36	4.57	5.40	8.56	#149.30	
% Mean														
Annual	4.06	5.24	6.19	5.76	6.31	8.81	7.19	25.50	15.32	3.26	5.63	5.73	100.00	
* - 7,740 sq. miles of which 1900 is largely noncontributing. Record obtained from USGS Water Supply Papers.														

# REP-1½ - Discharge of North Fork Republican River near Wray, Colorado

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1937						3.5	1.3	1.1	1.0	1.2	1.0	1.0		
1938	1.9	2.8	3.7	3.5	2.9	3.5	5.1	4.0	2.9	2.6	0.8	2.2	35.9	101.2
No. Items	1	1	1	1	1	1	2	2	2	2	2	2		
Mean	1.90	2.80	3.70	3.50	2.90	3.50	3.20	2.55	1.95	1.90	0.90	1.60	#30.40	
% Mean														
Annual	6.25	9.21	12.17	11.51	9.54	11.51	10.53	8.39	6.42	6.25	2.96	5.26	100.00	



# REP-2 - Discharge of North Fork Republican River at Colorado-Nebraska State Line

Unit: 1,000 Acre-Feet

Drainage Area 395\* Square Miles

Altitude 3,326 Feet  
ANAL. IN

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1931						2.0	5.0	1.8	1.3	0.5	0.7	1.1		
1932	1.9	3.1	4.6	4.9	4.9	6.5	3.8	1.9	1.5	2.2	3.7	2.2	41.2	121.2
1933	2.6	4.3	4.9	4.7	3.7	4.0	2.7	4.0	0.5	1.7	2.1	3.2	38.4	112.9
1934	2.6	3.2	4.6	4.5	4.4	4.4	2.6	0.7	3.1	0.3	0.6	1.1	32.1	94.4
1935	2.0	2.1	4.0	3.9	3.1	4.6	2.5	3.4	5.2	0.4	1.8	2.6	35.6	104.7
1936	1.3	3.1	4.2	3.6	3.5	4.8	4.1	2.7	2.7	0.4	1.6	1.4	33.4	98.2
1937	2.6	3.3	3.3	3.1	3.0	3.5	3.0	0.8	1.4	0.7	0.4	1.2	26.3	77.4
1938	1.9	2.8	3.7	3.5	2.9	3.5	5.1	4.0	2.9	2.2	0.8	2.2	35.5	104.4
No. Items	7	7	7	7	7	8	8	8	8	8	8	8		
Mean	2.13	3.13	4.19	4.03	3.54	4.16	3.60	2.41	2.32	1.05	1.46	1.88	34.00	
Annual	6.26	9.21	12.32	11.85	10.71	12.24	10.59	7.09	5.82	3.09	4.29	5.53	100.00	

\* A large additional area tributary as to underground flow though no direct channel connection through sand hills.

# REP-3 - Discharge of Arikaree River at Haigler, Nebraska

Unit: 1,000 Acre-Feet

Drainage Area 1,600 Square Miles

Altitude 3,243 Feet  
ANAL. IN

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1932	0.8	0.9	0.8	1.0	1.7	1.8	1.3	1.5	1.6	0.9	5.4	0.5		
1933	0.9	1.1	1.4	1.5	1.2	1.7	1.4	2.4	0.4	7.3	3.7	2.3	24.4	83.3
1934	0.4	1.1	1.4	1.0	1.1	1.3	1.3	0.5	2.4	0.1	3.0	0.3	15.0	51.2
1935	0.5	0.7	0.8	0.8	1.2	1.3	1.5	5.5	2.3	0.1	0.6	0.7	91.6	312.6
1936	0.9	0.9	0.6	0.6	3.7	1.5	0.5	0.7	1.2	0.3	0.07	1.3	16.0	54.6
1937	0.5	0.5	0.4	0.7	0.4	0.8	0.8	5.1	1.2	2.4	6.8	8.3	12.2	41.6
1938	6	6	6	6	6	7	7	7	7	7	7	7	27.9	93.2
No. Items	6	6	6	6	6	7	7	7	7	7	7	7		
Mean	0.67	0.87	0.90	0.93	1.55	1.36	1.20	8.47	6.39	1.84	3.13	1.99	29.30	
% Mean														
Annual	2.29	2.97	3.07	3.17	5.29	4.64	4.10	28.91	21.81	6.28	10.68	6.79	100.00	

Record obtained from U.S.S. Water Supply Papers.





# REP-4 - Discharge of Frenchman Creek near Champion, Nebraska

Unit: 1,000 Acre-Feet

Drainage Area 1,020\* Square Miles

Altitude

Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1932														
1933	1.7	1.4	1.5	2.5	2.2	1.5	1.4	1.6	1.8	2.8	1.6	1.6	21.6	110.9
1934	1.9	1.6	2.0	2.3	1.8	1.5	1.2	1.2	3.7	1.6	1.4	1.8	22.1	113.4
1935	1.5	1.4	1.6	1.9	1.6	1.4	0.7	2.6	2.4	1.2	1.7	1.6	18.6	95.5
1936	1.2	1.2	1.6	2.2	2.2	1.4	1.3	1.9	1.3	1.6	1.2	1.7	18.8	96.0
1937	1.3	1.2	1.2	2.2	2.0	1.2	1.0	1.4	1.5	1.1	1.6	1.1	17.1	87.8
1938	1.0	1.0	1.7	1.5	1.7	0.9	1.3	2.4	1.4	2.6	1.2	1.4	18.3	93.9
No. Items	6	6	6	6	6	6	6	6	6	6	7	7		
Mean	1.43	1.30	1.60	2.10	1.92	1.32	1.15	1.85	2.27	1.83	1.43	1.46	19.48	
% Mean														
Annual	7.34	6.67	8.21	10.78	9.86	6.78	5.90	9.50	10.63	2.50	7.34	7.49	100.00	

\*- Subject to error basin boundaries indefinite on available maps. Record obtained from USGS Water Supply Papers.



TABLES OF MONTHLY DISCHARGES

Arkansas River Basin

Arkansas River

and

Tributaries

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Stations in Downstream Order



# A-1 - Discharge of Arkansas River, East Fork near Leadville, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 52 Square Miles								Altitude 10,000 Feet				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANGL. IN % MEAN
1890							P	13.1	13.3	6.3	2.8	1.0		
1891	0.9													

1911														
1912	P		P					P	F	F	P	P		
1913	P							P	F	F	1.3	1.6		
1914	0.8	P					P	6.8	14.1	7.2	2.5	1.1		
1915	1.5	0.6					P	P	8.6	3.7	1.9	1.1		
1916	1.4	P					P	6.8	11.5	4.8	5.0	3.0		
1917	1.6	P		P			P	P	14.4	7.3	1.9	0.5		
1918	0.4	P						P	19.0	5.6	1.9	1.3		
1919	0.8	P		P		P	P	P	6.2	4.2	2.2	1.4		
1920	1.1	P						P	11.5	3.3	2.2	1.2		
1921	1.1	P	P			P	P	4.9	17.4	5.1	2.5	2.0		
1922	0.8	0.9*				P	P	5.8	11.2	2.8	2.5	1.1		
1923	0.3		P	P		P	0.5	6.7	15.1	7.3	4.1	2.0		
1924	F	P	P	P	P		0.9*	5.1	9.5	3.4	1.0	0.8		
1925	0.9	F												
No. Items	12	2					2	7	13	13	13	13		
Mean	0.97	0.75					0.70	7.03	12.15	4.98	2.44	1.39	#50.41x	

1903 Record: Gage heights and 7 miscellaneous measurements.





# A-2 - Discharge of Arkansas River at Granite, Colorado

Unit: 1,000 Acre-Feet														Drainage Area 431 Square Miles		Altitude 8,250 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN			
1897								68.5	37.1	44.2	21.5	10.1		ANNUAL			
1898	P										7.0	2.7		% MEAN			
1910							P	60.9	70.2	29.2	13.1	9.9					
1911	6.5	5.5	4.9*	4.8E	3.9*	5.3*	9.9	44.0	82.9	48.9	30.7	13.0	260.3	107.0			
1912	12.1	7.1*	3.0E	2.8	2.8	4.5	7.4	43.3	79.9	65.5	24.3	9.9	262.6	107.9			
1913	8.1	6.9				7.9	11.4	52.8	54.6	38.2	18.4	11.8					
1914	9.3	7.3	P				P	44.5	78.6	60.3	31.6	12.0					
1915	10.9	7.0				P	7.8	20.2	61.3	35.8	13.8	9.6					
1916	6.0	5.0				P	14.2	46.8	85.7	71.3	54.2	11.2					
1917	11.0	8.1					8.9	26.3	102.0	84.2	32.3	15.6					
1918	6.4	6.2	6.4	2.5	4.5	4.0	9.5	47.2	89.8	38.7	24.9	16.7	256.8	105.5			
1919	11.6	8.1	3.0				P	34.7	59.5	32.9	26.1	13.1					
1920	10.6	7.6	6.4	4.4*	3.7*	5.7*	8.3	40.6	88.1	62.7	32.8	11.1	282.0	115.9			
1921	8.7	6.2	5.9				6.7	32.1	61.3	46.2	24.6	16.1					
1922	10.6	8.4	9.0	5.5*	5.2*	6.7	9.2	47.5	72.6	41.4	32.1	13.9	262.1	107.7			
1923	8.6	6.0	5.2	4.9	3.7	4.3	10.0	35.3	61.9	48.9	34.2	16.6	239.6	98.5			
1924	11.1	10.2	7.1	5.5E	5.0E	5.1	11.4	48.8	89.3	43.9	48.0	8.9	294.3	120.9			
1925	8.6	7.6	6.3*	5.5E	3.6E	5.1*	9.1	34.4	51.6	37.1	20.5	12.8	201.9	83.0			
1926	9.7	5.8	3.6E	4.0E	3.9E	5.3*	12.7	36.2	62.5	57.1	43.4	8.7	252.9	103.9			
1927	7.8	6.8*	5.2*	4.0E	4.0E	6.3*	9.5	54.5	77.4	61.2	24.0	18.7	279.4	114.8			
1928	11.4	9.2	5.8*	4.7*	4.4*	7.0*	9.9	42.0	55.8	57.6	45.3	15.1	268.2	110.2			
1929	9.0	6.3	4.7*	4.6E	3.9E	5.2*	18.4	44.7	73.8	41.6	23.2	18.3	254.4	104.5			
1930	14.0	7.4	5.0*	4.3E	4.6E	5.7*	26.1	35.4	62.5	37.8	30.2	11.7	244.7	100.5			
1931	7.8	4.8	3.3*	3.4E	4.3E	4.0*	9.4	27.7	38.2	19.7	11.0	6.6	110.2	57.6			
1932	5.1	3.9*	4.4*	3.9E	3.8E	4.2*	8.2	37.6	67.8	47.1	21.3	9.2	217.2	89.4			
1933	5.9	5.1	4.8*	4.6E	3.9E	4.6*	5.8	20.0	71.6	41.4	17.8	7.7	200.2	82.4			
1934	6.0	4.9	4.3*	3.1E	3.0E	4.8	10.8	42.4	23.7	13.3	9.2	4.4	114.0	55.9			



## A-2 - Discharge of Arkansas River at Granite, Colorado (Continued)

Unit: 1,000 Acre-Feet

Drainage Area 431 Square Miles

Altitude 8,930 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1935	5.9	5.5	4.7	4.4	3.9	4.6	7.1	11.7	62.4	57.4	38.0	12.0	217.6	89.4
1936	6.9	5.1	4.7*	5.3*	4.2*	5.4	27.3	71.0	74.6	54.0	38.7	11.5	308.7	126.8
1937	7.4	5.9	4.7*	3.6*	3.5*	5.2*	13.7	49.7	52.4	36.9	18.0	8.2	209.2	86.0
1938	7.5	6.2	5.3	4.6*	3.8E	5.9*	12.2	35.3	98.0	56.6	43.4	15.0	223.8	120.7
No. Items	28	28	23	21	21	22	26	30	30	30	31	31		
Mean	8.73	6.58	5.12	4.29	3.98	5.31	11.24	41.20	70.20	47.25	27.56	11.61	#243.37	
% Mean														
Annual	3.59	2.70	2.10	1.76	1.64	2.18	4.66	16.23	28.85	12.42	11.32	4.33	100.00	

### A-3 - Discharge of Arkansas River at Salida, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 1,210 Square Miles

Altitude 7,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANAL. IN % MEAN
1895							P	95.0	95.2	71.2	52.9	31.9		
1896	P							99.0	109.2	61.2	32.7	24.6		
1897											17.2	11.8		
1898	P							83.2	157.0	90.0	30.5	16.7		
1899	13.9	15.9				P	23.7	110.1	123.9	38.9	19.7	17.3		
1900							9.2							
1901	11.8						22.3	99.9	64.8	30.3	26.1	15.4		
1902	13.5	12.8					13.1	52.4	27.8	14.1	13.3	10.0		
1903	10.7						23.2	36.2	103.4	94.7	59.8	29.7		
1904	17.6													
1910		P	16.2	14.3	11.9	18.1	32.9	93.9	115.0	42.2	25.6	20.3		
1911	16.3	15.1	13.2	12.0	12.5	13.4	16.0	61.1	138.3	111.7	57.8	30.1	497.5	112.5
1912	38.4	21.5	14.6	12.8	11.4	12.6	14.3	59.7	131.9	116.4	46.9	26.2	506.7	114.6
1913	22.6	20.6	14.2	14.3	11.5	12.8	19.5	68.2	86.9	64.6	30.9	28.0	394.1	89.1
1914	23.9	18.8	15.5	15.6	13.5	15.6	18.0	64.6	149.0	121.0	65.8	28.2	549.5	124.2





# A-3 - Discharge of Arkansas River at Salida, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 1,210 Square miles				Altitude 7,038 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN	
1915	28.7	21.8	17.5	13.1	11.9	13.6	17.8	29.5	106.0	61.5	34.5	23.0	374.9	65.2	
1916	21.0	16.7	16.2	15.7	13.2	26.3	24.3	65.8	140.0	113.0	81.8	29.3	563.3	127.4	
1917	26.3	20.9	16.9	15.0	13.1	15.0	15.5	34.5	171.0	145.0	59.2	27.3	559.2	126.4	
1918	15.2	17.0	14.9	12.1	10.9	14.5	16.8	60.6	196.0	80.6	46.8	37.2	522.6	115.2	
1919	22.4	18.2	14.7		P		F	69.5	100.0	76.2	46.1	31.5			
1920	24.7	22.0	20.0	16.3	14.5	14.3	15.1	53.1	131.0	109.0	63.6	23.9	519.7	124.3	
1921	21.5	21.2	15.5	15.2	12.8	16.1	16.1	61.2	157.0	104.0	44.8	32.3	517.7	117.1	
1922	25.5	24.4	21.7	16.8	14.4	15.2	17.9	76.9	132.0	86.7	48.3	25.5	505.3	114.2	
1923	17.7	18.0	16.3	14.5	12.3	14.2	18.5	56.8	124.0	112.0	65.5	39.2	509.0	115.1	
1924	33.2	25.3	19.3	16.1	14.6	14.8	22.0	74.4	150.0	76.2	58.3	18.7	522.9	118.2	
1925	19.1	17.5	15.4	14.6	11.7	13.1	15.1	51.2	75.6	59.7	39.0	28.4	360.4	81.5	
1926	23.4	17.8	14.4	12.9	11.5	13.4	20.7	58.4	102.0	89.8	65.2	20.4	449.9	101.7	
1927	17.1	17.3	15.7	14.6	12.5	15.2	17.4	79.3	131.0	95.9	39.0	35.2	490.2	110.8	
1928	28.5	23.3	19.4	17.2	14.8	15.8	17.9	68.2	102.0	94.1	60.8	26.6	488.6	110.5	
1929	18.8	16.6	14.3	13.3	11.0	14.9	23.8	68.2	123.0	74.4	62.7	48.0	439.0	110.6	
1930	33.0	21.8	19.1	14.3	13.0	12.9	33.5	52.1	94.6	60.9	53.9	23.7	431.8	97.6	
1931	19.5	16.4	13.6	11.5	11.3	12.8	15.4	34.0	50.1	27.0	18.4	13.5	243.5	55.1	
1932	12.2	12.1	13.5	11.5	10.9	11.0	12.4	55.5	102.0	84.8	41.6	19.0	386.5	87.4	
1933	17.0	15.8	13.6	11.0	10.2	11.5	11.0	31.8	122.0	59.8	28.2	17.1	349.0	78.9	
1934	14.6	14.3	14.3	12.5	11.3	11.3	17.6	67.0	34.8	21.2	20.7	16.0	255.6	57.8	
1935	15.3	13.9	13.9	12.7	10.5	10.8	11.8	19.0	121.2	94.4	59.0	26.0	408.5	92.4	
1936	20.5	16.4	14.6	13.6	12.5	13.0	35.0	108.0	126.4	77.2	71.4	28.8	537.4	121.5	
1937	23.3	17.8	16.1	13.8	12.2	12.7	20.6	72.3	74.7	57.2	31.8	16.5	369.0	83.4	
1938	15.5	13.1	14.4	13.6	12.1	13.1	17.5	46.8	145.0	83.1	54.7	34.1	463.0	104.7	
No. Items	33	30	29	28	28	28	33	36	36	36	37	37			
Mean	20.69	18.14	15.79	13.96	12.29	14.21	18.97	64.51	115.66	77.50	45.24	25.32	442.28		
% Mean															
Annual	4.68	4.10	3.57	3.16	2.78	3.21	4.29	14.59	26.15	17.52	10.23	5.72	100.00		



# A-4 - Discharge of Arkansas River at Canon City, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 3,090 Square Miles

Altitude 5,262 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1888				24.6E	27.5E	36.9E	59.5E	88.5*	125.0	83.0	57.1	35.0		
1889	30.8*	29.8E	24.6E				P	43.0	P	36.0	23.4	13.1		
1890	13.2	18.1	20.7	19.1	20.2	19.5	28.4	P	155.4	96.6	41.1	P		
1891				26.5	26.3	36.0	51.0	121.7	176.0	90.3	56.5	28.2		
1892	38.4	29.7	29.3	30.5	28.4	32.4	31.1	78.3	167.0	110.5	P	25.9		
1893	31.8	P		31.2	29.6	34.1	33.8	91.0	185.4	65.7	35.3	28.4		
1894			P	27.4	23.3	31.1	37.2	120.5	160.9	85.8	43.6	32.9		
1895	18.1	P		21.2	20.1	29.0	51.6	92.6	113.1	86.9	67.3	37.8		
1896	31.1	29.7	27.3	27.9	25.2	29.0	33.2	78.4	57.1	33.1	24.3	18.6	414.9	78.2
1897	17.5	15.9	29.6	14.8	14.3	17.3	11.9	106.7	147.2	67.0	30.6	14.9	487.7	91.9
1898	25.5	30.1	17.5	16.3	18.7	21.4	23.0	55.9	144.5	99.7	20.0	11.2	453.8	91.2
1899	14.0	18.0	21.3	19.4	16.8	35.8	32.4	118.3	206.0	124.2	43.7	13.4	655.3	125.4
1900	14.0	24.4	20.4	21.9	17.5	26.2	43.8	136.4	207.8	54.0	14.2	12.6	600.6	111.2
1901	14.8	15.9	18.3	18.6*	15.6	13.7	22.2	103.4	129.8	48.9	58.8	20.9	476.9	83.9
1902	19.2	16.1	18.8	19.2	18.3	20.9	17.5	46.5	28.7	14.1	16.6	15.1	431.0	47.3
1903	19.3	18.2	21.0	19.6	16.6	26.4	26.4	29.0	122.1	11.7	50.3	10.0	508.8	91.3
1904	14.1	13.7	16.7	16.2	16.7	10.9	21.1	60.8	83.1	60.0	44.7	23.4	424.4	72.5
1905	34.6	16.9	17.6	19.9	19.4	24.8	35.7	77.1	236.6	67.4	45.7	19.0	440.7	115.9
1906	19.5	23.5	21.1	21.3	19.4	23.5	29.8	81.5	145.0	95.5	49.2	23.1	541.9	106.5
1907	39.9	31.5						59.2	163.8	194.9	71.8	30.3		
1908								P	81.5	31.6	34.8	13.1		
1909	15.3	17.2					P	43.1	170.0	124.0	72.5	51.2		
1910	30.8	31.3	15.1	26.4	19.9	33.9	45.3	111.6	110.7	59.7	29.2	20.5	535.4	100.9
1911	21.1	17.7	18.2	18.7	16.9	23.3	17.1	63.4	132.5	130.0	56.4	26.6	558.9	106.9
1912	73.5	32.2	23.0	20.3	16.7	24.3	23.3	60.4	167.0	141.6	51.9	22.7	604.9	129.1
1913	22.2	20.1	21.1*	20.7	20.0	21.1	26.3	66.9	96.8	60.4	26.5	23.6	426.1	53.3
1914	23.1	21.1	21.8	21.8	19.3	21.8	20.7	69.5	165.0	154.0	81.2	23.4	647.7	122.1





# A-4 - Discharge of Arkansas River at Canon City, Colorado (Continued)

Unit: 1,000 Acre-Feet		Drainage Area 3,090 Square Miles										Altitude 5,365 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1915	27.9	24.6	25.7*	23.7	19.3	22.8	32.6	47.5	125.0	81.2	42.9	26.5	499.7
1916	25.1	22.3	22.1	22.4	20.0	33.6	31.3	67.0	138.0	112.0	83.6	30.2	607.6
1917	29.6	30.3	28.2	28.0	22.8	24.2	23.3	50.5	177.0	147.0	57.2	28.4	645.5
1918	17.1	19.4	21.0	20.2	23.1	22.2	20.0	60.9	200.0	85.5	48.7	32.7	570.5
1919	25.6	25.6	23.7	28.7	21.2	25.1	50.7	99.0	105.0	84.2	48.7	34.0	571.5
1920	26.9	28.1	30.5	22.9	21.5	22.9	18.2	67.0	177.0	108.0	75.0	32.2	630.2
1921	25.8	30.3	27.5	23.1	18.1	19.4	20.0	61.5	201.0	129.0	67.0	38.9	661.6
1922	29.3	27.8	26.6	22.6	19.7	22.0	22.0	76.2	137.0	74.4	52.5	27.1	537.2
1923	17.8	20.9	20.7	17.4	15.3	19.7	20.2	58.0	142.0	136.0	82.4	47.5	597.9
1924	46.6	36.9	29.1	28.2*	25.9*	24.6	40.9	97.8	177.0	76.2	55.0	18.6	656.8
1928	20.4	19.6	20.8*	20.7*	16.2	17.6	12.0	40.9	69.6	62.1	37.9	26.1	363.9
1926	22.9	19.9	20.0	17.3	17.1	19.4	27.9	65.2	129.0	89.8	59.5	18.6	506.6
1927	15.2	20.5	18.0	17.7	16.1	24.6	19.3	78.7	132.0	103.0	44.2	35.7	525.0
1928	30.9	23.8	24.1	23.5	18.1	19.4	17.2	80.6	120.0	91.6	59.3	24.6	533.1
1929	17.6	18.6	20.8	19.6	15.6*	20.5	22.4	58.5	124.0	78.1	93.5	66.6	555.8
1930	33.9	26.7	24.9	21.6*	23.1*	19.6	32.3	47.5	99.4	69.5	65.8	25.0	489.3
1931	17.8	18.9	20.1	18.8	16.7	17.9	19.3	42.2	55.6	27.9	16.1	11.2	282.5
1932	11.3	12.5	20.7	15.9	15.9	15.2	14.3	68.2	115.0	91.6	48.7	21.7	451.0
1933	16.0	17.0	15.3*	18.4*	20.1*	13.3	11.4	36.8	136.0	57.2	28.3	19.2	389.0
1934	15.0	14.6	18.9	16.9	13.9	12.1	16.2	62.1	34.2	18.7	19.2	11.9	253.7
1935	11.8	12.3	16.4	15.2	12.7	10.9	9.2	20.9	144.2	99.7	62.8	28.6	444.7
1936	23.4	20.7	20.5	19.2	15.0	12.4	33.3	118.6	119.5	77.9	86.9	32.6	562.0
1937	26.9	24.3	20.6	15.9	14.4	17.8	23.5	77.9	81.2	58.9	32.2	15.9	409.5
1938	13.2	12.1	19.6	18.4	15.2	15.1	19.0	48.1	163.3	86.5	53.3	41.1	504.9
No. Items	47	45	43	47	47	47	47	49	50	51	50	50	
Mean	24.21	22.20	22.07	21.28	19.28	22.67	27.36	72.64	137.24	85.54	48.80	27.19	#530.48
% Mean													
Annual	4.56	4.18	4.16	4.01	3.64	4.27	5.16	13.69	25.87	16.13	9.20	5.13	100.00





# A-4A - Discharge of Arkansas River near Rock Canon, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 4,560 Square Miles										Altitude 4,750A Feet			
												ANNUAL IN			
YEAR		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
1887										205.1	206.3	107.5			
1889									80.0	125.4	47.1	41.1			
No. Items									1	2	2	2			
Mean									80.00	165.55	126.70	74.30		446.25x	

# A-5 - Discharge of Arkansas River at Pueblo, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 4,730 Square Miles												Altitude 4,675 Feet	
YEAR		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1885									P	P					
1886									P	P	106.0	91.1	F		
1894															
1895		25.2	24.5	23.0	28.3	26.4	21.9	44.3	96.0	128.1	116.2	78.4	29.4	612.9	125.8
1896		33.9	31.5	28.4	31.9	26.2	24.3	28.0	67.5	53.2	38.9	30.1	18.4	412.3	79.4
1897		18.0	18.7	24.6	19.9	18.2	15.0	14.4	100.3	131.7	63.7	28.8	16.2	467.5	89.8
1898		25.4	28.8	21.9	20.3	21.4	19.7	22.0	51.7	131.0	98.7	18.8	7.4	467.1	89.9
1899		12.9	18.5	22.4	25.1	33.7	24.9	24.9	103.4	201.4	125.6	F	F		
1900		F	P	P	25.3	23.2	24.0	48.9	184.3	238.5	54.0	19.3	13.8		
1901		19.7	25.9	24.3	29.1	23.0	19.8	32.8	P	139.7	61.8	47.3	25.5		
1902		19.7	19.7	P	21.1	16.7	15.9	13.9	53.9	32.3	18.2	37.4	16.1		
1903		19.1	18.3	20.5	20.1	16.5	2.4	23.9	30.0	153.3	79.7	44.3	17.5	465.9	89.7
1904		F	P					21.2	77.5	101.8	60.0	53.8	34.4		
1905		48.3	27.2	26.2	14.1	16.2	29.2	64.1	128.2	230.1	51.9	48.6	20.6	706.2	135.9
1906		16.8	22.9	28.8	26.8	18.5	19.0	27.9	77.8	133.2	98.1	57.5	44.0	571.3	110.0
1907		61.7	55.2			F	18.6	20.7	61.3	157.3	184.6	71.5	41.1		



## A-5 - Discharge of Arkansas River at Pueblo, Colorado (Continued)

Drainage Area 4,730 Square miles													Altitude 4,675 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	A.L.T.
1908	34.8	23.5	25.6			P	23.9	29.5	77.7	55.2	32.5	7.0		
1909	13.6	14.8					P	40.8	159.5	114.9	74.5	105.5		
1910	46.0	33.8	28.3	27.8	23.5	33.0	43.2	107.7	107.8	45.2	26.1	14.5	127.0	103.0
1911	15.9	16.9	15.3	15.9	15.3	20.4	12.9	67.8	131.8	124.6	60.1	27.6	126.5	101.4
1912	63.7	37.2	24.5	19.1	15.9	17.5	17.9	71.3	174.1	137.8	53.5	25.3	121.8	124.4
1913	40.9	47.8	18.2	17.0	18.3	14.0	25.3	64.6	85.9	58.5	21.4	21.7	121.6	101.3
1914	22.1	18.7	23.7	21.3	19.5	23.7	27.8	86.1	189.0	190.0	113.0	30.3	72.2	147.3
1915	33.0	25.8		30.7	20.4	25.4	45.0	56.3	130.0	83.0	53.9	25.5		
1916	30.4	23.4	25.1	25.0	18.9	30.9	27.8	69.5	126.0	103.0	74.4	20.9	575.3	110.7
1917	27.6	27.9		24.2	19.6	16.7	17.0	43.0	166.0	134.0	57.2	26.9		
1918	19.9	19.2	15.7*	17.5	10.6	12.1	13.0	48.3	179.0	65.8	21.2	20.8	403.1	85.3
1919	12.4	14.5	12.4	24.0	16.0	17.5	50.5	92.8	100.0	86.1	48.2	34.1	508.5	27.2
1920	24.9	26.4	29.0	20.2	14.4	14.8	13.6	58.3	153.0	92.2	77.5	50.9	553.2	106.9
1921	26.6	30.4	27.9	21.5	12.2	11.5	20.1	57.5	397.0	172.0	81.2	31.1	889.0	171.1
1922	25.2	31.3	34.7	27.6*	21.4*	18.4	14.9	70.1	118.0	70.7	45.7	21.3	493.3	96.1
1923	13.2	23.4	22.0	14.9	12.1	12.5	15.8	57.4	119.0	157.0	125.0	72.0	644.5	124.0
1924	60.1	50.9	34.6	27.4*	29.5*	21.0	46.5	87.9	176.0	66.4	46.9	13.3	660.5	127.1
1925	17.4	19.3	17.2	22.0	13.0	13.5	6.1	33.7	60.1	58.7	35.8	24.2	521.0	61.0
1926	21.6	16.8	19.1	16.7	12.3	12.5	29.9	70.7	117.0	86.7	54.5	13.4	471.0	90.7
1927	12.0	21.1	17.9*	18.7*	10.7	19.5	13.4	64.6	125.0	97.2	60.6	33.9	494.6	95.2
1928	37.3	29.3	22.9*	22.6	14.2	15.3	12.3	79.3	112.0	89.8	60.4	24.5	519.9	100.1
1929	16.2	21.8	21.8	20.0	18.9	17.0	13.6	58.9	107.0	87.9	152.0	82.1	617.2	118.8
1930	39.5	39.5	28.0	22.6*	24.0*	15.3	25.2	41.1	95.7	60.6	89.2	30.7	551.4	96.5
1931	17.1	23.0	20.0*	16.1*	10.3	14.6	16.1	45.8	48.7	18.4	3.4	7.7	246.2	47.4
1932	9.7	13.3*	15.7*	13.0*	10.5*	9.8*	8.2	55.7	105.0	86.7	43.7	15.7	367.0	74.5
1933	13.3	15.3	12.0	11.2	10.8	5.5	6.4	42.5	131.0	55.1	33.1	9.9	346.1	66.6
1934	5.2	10.4	13.8	14.0	9.2	5.7	9.4	51.7	20.5	8.2	11.6	5.1	161.8	31.7





# A-5 - Discharge of Arkansas River at Pueblo, Colorado (Continued)

Unit: 1,000 Acre-Feet										Drainage Area 4,730 Square miles					Altitude 4,675 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN			
1935	6.8	5.4	6.6*	7.3*	4.8*	3.1	4.7	28.8	135.6	95.8	60.2	27.7	386.8	74.5			
1936	16.7	21.8	15.4*	11.6*	10.7*	4.3	22.0	110.5	107.0	74.3	103.6	25.2	523.1	100.7			
1937	29.3	26.5	20.9	14.5	18.4	14.6	21.4	74.0	67.4	46.9	34.7	13.8	332.4	73.6			
1938	11.8	14.2	17.4	15.1	12.5	10.7	14.9	48.5	155.3	83.8	58.6	53.1	495.9	95.5			
No. Items	12	12	27	40	40	41	43	43	44	45	44	43					
Mean	25.41	21.76	21.76	20.54	17.20	17.16	23.35	68.53	131.61	85.87	55.74	27.47	457.3				
% M.A.	4.69	4.74	4.19	3.25	3.31	3.20	4.50	23.19	25.38	16.53	10.73	5.29	100.00				

# A-5A - Discharge of Arkansas River at Boone, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 7,100A Square Miles				Altitude 4,440A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN	
1916										114.0	132.0	22.0			
1917	P														
No. Items										1	1	1			
Mean										114.00	132.00	22.00	2260.00x		



# A-6 - Discharge of Arkansas River near Nepesta, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 9,130 Square Miles			Altitude 4,396 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUL. IN	
1898							F	69.0	119.3	80.5	19.1	13.8			
1899	17.2	21.8					P	70.2	156.0	163.0	58.8	11.9			
1900	14.4	20.8	P					361.3	327.1	104.4	25.9	15.6			
1901	26.7	30.6	P					96.5	177.8	39.3	44.5	18.8			
1902	P						7.1	57.6	35.7	19.7	39.9	5.5			
1903	7.9	P					5.3	8.0	267.5	74.5	40.5	7.6			
1904	7.1						P	P	F	P	P	27.0			
1905	P														
1906								F	99.3	111.0	47.4	25.9			
1907								P	154.7	208.4	67.9	25.1			
1908								13.6	50.0	40.2	33.1	9.0			
1909												104.0			
1910	28.1	23.0	P	48.5	36.1	30.4	33.7	63.2	70.9	22.0	72.6	7.0			
1911	12.0	9.3	18.4												
1912						P	15.8	69.5	153.1	124.7	72.4	22.3			
1913	24.3	14.2													
1914				24.5	16.6	16.2	23.4	132.0	226.0	166.0	117.0	31.5			
1915	33.0	30.5		27.5	17.6	14.3*	78.0	122.0	184.0	70.1	76.9	29.2			
1916	29.5	25.4	28.6	35.7	24.3	19.5	22.4	48.5	91.6						
1917	P	28.7		32.0	19.6	19.7	22.1	51.7	120.0	82.4	38.5	20.1			
1918	16.2	16.7	11.1	17.9	17.3	15.1	20.8	34.5	121.0	74.4	26.1	24.3	395.4	81.1	
1919	17.3	21.8	18.3	6.9	13.1	19.4	51.9	68.9	63.1	64.0	54.1	44.9	444.2	91.1	
1920	23.3	20.1	20.2	15.4E	13.8E	15.7	10.1	60.5	120.0	85.5	75.0	37.4	447.0	102.0	
1921	27.5	27.3	22.0	14.6	15.4	10.9	17.4	44.5	P						
1922						13.2	14.4	44.8	78.6	52.9	32.7	12.9			
1923	11.7	20.5	15.2	13.6	17.2	14.6	15.5	38.6	75.6	151.0	144.0	61.3	575.8	118.7	
1924	71.9	45.3	41.2	33.0*	35.3*	18.6*	35.0	86.7	162.0	50.4	14.0	8.3	602.4	135.6	



A-6 - Discharge of Arkansas River near Nepessta, Colorado (Continued)

Unit: 1,000 Acre-Feet

Drainage Area 9,130 square miles

Altitude 4,396 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN
1925	14.6	16.3	12.5*	20.5E	7.0*	11.0	4.5	24.1	43.7	66.4	30.7	23.3	274.6	56.3
1926	18.7	8.4	12.1*	15.9*	15.1	15.3	42.8	78.7	105.0	59.8	29.1	11.7	412.6	84.6
1927	11.6	23.0	26.9*	13.3*	13.6	19.2	10.6	47.9	98.2	92.8	118.0	29.2	504.3	103.5
1928	36.9	29.6	27.5*	13.0*	15.7	18.0	18.1	74.4	121.0	61.3	32.7	21.5	469.7	96.4
1929	10.8	22.1	P			P	12.1	38.4	89.8	78.1	153.0	91.6		
1930	25.8	P	P		P	14.2	23.8	37.5	78.6	44.9	103.0	31.1		
1931	11.6	P				18.6	14.5	55.5	54.6	13.0	6.3	4.3		
1932	8.8	14.9*				12.2	9.2	45.2	84.5	81.8	46.7	16.1		
1933	18.2	20.4			P	8.7	7.8	77.5	124.0	41.6	57.0	13.9		
1934	7.6	12.7			13.9*	10.8	12.7	45.9	19.4	8.1	11.1	3.9		
1935	6.0	7.5			P	7.7	5.4	61.4	115.6	92.3	43.6	29.9	582.5	119.5
1936	17.2	22.1	16.8	12.6	13.8	7.3	20.4	97.0	100.0	78.2	167.3	29.8	390.5	80.1
1937	27.9	27.8	24.9	16.0*	19.9	18.0	25.3	73.9	61.6	33.1	29.5	27.6	491.8	100.9
1938	9.3	13.7*	18.6*	17.2*	14.9	14.9*	21.0*	69.2*	114.5*	76.5*	40.5*	31.5		
No. days	27	27	15	17	13	15	29	34	35	34	34	36		
Mean	17.72	21.22	21.00	21.81	17.97	19.14	20.73	65.73	116.22	76.99	57.92	29.41	4487.16	
% M. A.	4.96	4.27	4.31	4.21	3.81	3.15	4.15	14.22	23.85	15.77	11.88	6.03	100.00	





A-6B - Discharge of Arkansas River near Rocky Ford, Colorado

Unit: 1,000 Acre-Feet			Drainage Area 11,440 Square Miles										Altitude 4,150A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL. IN % MEAN
1897								F	109.0	36.2	37.8	2.4		
1898	8.8	9.2			P	15.6	12.7	74.2	122.0	76.8	16.5	9.3		
1899	15.1	31.5	P			P	16.3*	45.0	89.1	92.5	42.2	9.1		
1900	8.9	16.7	P	P	P	19.9	P							
1901							P	86.5	125.0	27.6	49.7	20.5		
1902	21.2	25.7	27.9	24.7	58.4	50.9								
1903							P	7.2	204.5	42.0	21.9	5.7		
1904	5.1													
No. Items	5	4	1	1	1	3	2	4	5	5	5	5		
Mean	11.82	20.78	27.90	24.70	58.40	28.80	14.50	53.22	129.92	55.02	33.52	9.40	7458.08	
% Mean														
Annual	2.52	4.44	5.96	5.28	12.48	6.15	3.10	11.37	27.76	11.75	7.18	2.01	100.00	

A-7 - Discharge of Arkansas River at La Junta, Colorado

Drainage Area 12,200 Square Miles													Altitude 4,052 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1889								P	80.6	51.9	26.8			
1903							P	P	190.0	15.4	7.8	2.8		
1904	1.3													
1912							P	15.3	29.2	38.3	31.1	7.4		
1913	14.2	17.9	5.9	3.4	2.9	3.1	9.5	11.5	21.0	13.9	3.3	4.4	111.0	55.9
1914	9.1	8.2	4.3	2.8*	4.9	7.3	10.6	49.7	158.0	65.8	44.2	6.5	371.4	187.2



# A-7 - Discharge of Arkansas River at La Junta, Colorado (Continued)

Unit: 1,000 Acre-Feet      Drainage Area 12,200 Square Miles      Altitude 4,052 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1915	11.2	6.4		3.4	1.6	7.1	16.4	38.3	113.0	22.1	47.3	9.9		
1916	12.4	6.3	1.9	12.0	10.0	3.6	12.3	21.3	23.6	24.5	30.5	2.6	161.0	81.1
1917	5.8	4.0		2.3	1.0	3.1	4.9	23.5	28.7	34.7	13.5	4.3		
1918	5.6	10.1	3.8	0.9	1.0	4.1	5.6	13.0	33.3	18.6	5.3	7.9	109.2	55.0
1919	9.4	17.0	3.8	1.0	0.9	1.2	2.1	10.6	18.4	15.1	9.7	15.1	104.3	52.5
1920	2.0	6.6	4.5	2.2	1.5	6.2	3.6	15.9	30.8	25.9	9.8	7.9	114.9	53.9
1921	10.8	1.9	1.4	2.8	0.6	1.8	7.8	23.2	607.0	140.0	99.0	10.9	907.2	457.1
1922	14.9	7.5	3.6	6.5	4.2	1.9*	3.9	14.2	34.2	20.1	5.3	2.2	118.5	59.7
1923	1.7	10.6	6.9	3.6	2.6	4.5	2.6	14.9	23.6	47.0	138.0	55.2	311.2	156.8
1924	45.8	9.9	13.5	43.0*	26.6*	3.0	12.9	23.8	54.5	20.4	3.7	1.8	258.9	130.5
1925	6.0	6.8	1.8*	0.7*	0.4	3.5	2.5	12.8	17.7	37.9	9.9	6.0	106.0	53.4
1926	10.4	9.0	2.0	2.1	2.2	8.4	5.8	12.5	17.6	17.9	7.0	2.2	97.1	48.9
1927	2.3	13.0	5.8	1.5	2.3	7.3	6.0	20.8	35.5	48.0	64.0	10.9	217.4	109.5
1928	17.8	16.4	4.5	1.1	3.3	4.3	3.5	12.2	73.2	27.1	11.8	3.4	178.6	90.0
1929	4.2	9.2	6.5	1.6	3.6	2.7	1.8	12.4	28.7	29.7	92.8	12.9	206.8	104.2
1930	15.2	5.7	4.6	1.3	2.6	4.4	5.4	12.4	27.8	11.0	31.6	10.8	132.8	66.9
1931	5.9	8.1	3.8	0.9	1.1	2.8	5.0	15.1	12.1	4.6	2.9	2.9	65.2	32.9
1932	1.2	1.6	3.0	1.6*	2.0*	2.4*	2.0	16.4	29.0	34.7	23.1	4.1	121.1	61.0
1933	5.5	7.1	1.2	1.2	5.1	1.5	4.1	56.5	54.9	19.5	14.7	7.8	179.1	90.2
1934	2.3	3.6	7.1	4.5	4.4	2.4	2.6	15.9	4.9	2.1	3.1	6.6	59.5	30.2
1935	0.4	0.6	1.9*	2.0*	1.1	1.5	1.4	41.1	41.4	33.3	15.4	10.5	148.4	72.3
1936	8.7	10.0	8.4	4.2	2.3	1.0	5.7	43.5	20.1	52.3	97.8	12.3	266.2	134.2
1937	18.3	11.5	6.0	3.0	2.8	3.2	9.6	32.2	28.9	10.6	6.6	21.6	154.3	77.8
1938	1.5	5.3	6.4	9.1	5.1	2.9	6.9	23.6	31.9	30.8	10.9	38.8	171.2	86.1
No. Days	27	26	24	26	26	26	26	27	29	29	29	28		
Mean	9.06	6.17	4.69	4.57	3.70	3.66	5.94	22.32	64.71	31.44	29.82	10.44	198.45	
% Mean														
Annual	4.57	4.12	2.36	2.30	1.87	1.84	2.99	11.25	32.62	15.84	15.03	5.21	100.00	





# A-7B - Discharge of Arkansas River at Ft. Lyons, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 18,200 Square Miles

Altitude 3,835A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1911														
1912	27.2	26.0	P				P	19.1	23.8	55.1	8.4	3.8		
No. Items	1	1						1	1	1	1	1		
Mean	27.20	26.00						19.10	23.80	55.10	8.40	3.80	#173.40x	

# A-7C - Discharge of Arkansas River at Caddoa, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 19,000 Square Miles

Altitude 3,760 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1938							P	5.1	24.6	38.2	48.9	12.8	50.0	
No. Items							1	1	1	1	1	1		
Mean							5.10	24.60	38.20	48.90	12.80	50.00	#179.60x	

# A-7C - Discharge of Arkansas River near Prowers, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 19,100A Square Miles

Altitude 3,710A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1903														
1904		P	P						265.1	23.2	10.6			
No. Items									1	1	1			
Mean									265.1	23.2	10.6		#301.90x	

# A-7D - Discharge of Arkansas River at Prowers, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 19,125 Square Miles

Altitude 3,665A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1900														
1901		P	1.1				P	209.0	155.7	9.9	2.7	0.4		
No. Items			1					1	1	1	1	1		
Mean			1.10					209.00	155.70	9.90	2.70	0.40	#375.80x	



# A-7E - Discharge of Arkansas River near Amity Canal Headgates, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 19,140.4 Square Miles      Altitude 3,645.5 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1898											13.0	1.4		
1899	3.3	15.8	15.2						39.0	115.0	54.4	4.4		
1900	5.3	14.8	8.1	14.7	11.6	10.5	176.9	274.8	195.8	17.2	5.5	1.3	736.5	101.6
1901	1.2	6.5	9.2											
No. Items	3	3	3	1	1	1	1	1	2	2	3	3		
Mean	3.27	12.37	10.83	14.70	11.60	10.50	176.90	274.80	117.40	66.10	24.30	2.37	725.14	
% M.A.	0.45	1.71	1.49	2.03	1.60	1.45	24.39	37.90	16.19	9.11	3.35	0.33	100.00	

# A-8 - Discharge of Arkansas River at Lamar, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 19,800 Square Miles      Altitude 3,570 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1913														
1914	0.1	0.1	5.4	8.1	3.8*	4.7	0.1*	0.1*	5.4	1.0	0.1	0.1		
1915	1.1	2.6		8.7	4.3		63.7	71.3	115.0	116.7	58.9	0.6	534.9	269.8
1916	0.6	1.2	6.1	11.3*	17.7*	0.8	0.9	0.6	12.1	1.0	59.0	1.4		
1917	0.3	6.5	P	21.5	5.4	0.5	0.2	2.1	2.3	2.1	0.2	1.0	112.7	51.8
1918	1.2	0.3	4.3	5.9	8.0	2.3	1.6	1.2	4.6	4.4	1.9	3.5		
1919	0.3	0.7	4.7			P	33.6	19.8	2.6	9.9	10.2	0.7	39.2	19.8
1920	0.8	10.7	10.1	10.8	2.8	1.0	1.2	1.5	0.8	18.5	11.4	8.1	77.7	39.2
1921	10.3	8.9	7.9	7.9*	6.3*	4.9	0.7	1.5	684.0	190.0	138.0	2.9	1,063.3	334.3
1922	0.9	0.4	5.1*	8.1	10.5	4.2	1.7	0.6	0.6	2.4	5.9	0.1	40.5	20.4
1923	0.1	0.4	1.1	0.3	0.3	0.4	0.2	21.8	71.4	76.2	267.0	84.5	523.7	264.2
1924	121.0	35.3	28.5	59.0*	51.6*	43.0	38.9	4.5	26.4	0.5	0.2	0.1	409.0	206.3





A-8 - Discharge of Arkansas River at Lamar, Colorado (Continued)

Drainage Area 19,800 Square Miles														Altitude 3,570 Feet	
Unit: 1,000 Acre-Feet														ANNUAL IN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1925	0.2	0.2	6.8	8.1*	4.4*	0.3	0.1	4.6	8.0	94.7	34.7	1.3	163.4	82.4	
1926	0.4*	8.1*	5.0	9.4	4.4	0.4	2.7	3.0	11.5	6.3	1.1	0.1	52.4	26.4	
1927	0.1	0.8	2.4	5.6	1.2	1.3	0.3	0.2	0.8	117.0	164.0	3.3	297.0	149.8	
1928	0.2	0.3	6.3*	7.7*	0.7	0.3	0.3	62.1	134.0	6.6	0.6	1.3	210.4	111.2	
1929	0.4	2.6	16.2	12.0	9.2*	2.0	0.3	0.6	2.7	2.8	147.0	1.1	175.9	89.2	
1930	0.5	11.8	13.3	13.3	10.5	3.6	0.3	1.7	3.5	0.8	17.5	11.8	88.9	44.8	
1931	32.3	6.7*	16.9*	5.0E	6.0	2.4*	4.5	2.6	3.0	0.2	0.2	0.1	79.9	40.3	
1932	0.1*	0.5	1.2	1.8*	1.0*	0.7*	0.2	0.4	2.3	3.2	2.5	0.1	14.2	7.2	
1933	0.1	0.2	0.2	0.3	1.2	0.2	0.1	70.1	18.0	5.0	41.7	24.9	162.0	81.7	
1934	0.2	0.2	0.2	1.0	0.9	0.2	0.2	1.1	0.3	2.5	0.7	25.4	32.9	16.6	
1935	0.1	0.1	0.1	0.3	0.2	0.1	0.1	26.5	31.7	17.4	5.7	7.4	89.7	45.2	
1936	0.2	0.2	0.8	2.6	2.5	0.4	0.4	76.7	7.3	54.4	92.3	0.6	230.4	120.3	
1937	0.4	0.3	0.7	1.2	2.2	0.3	0.3	0.5	30.5	1.3	1.0	27.6	66.3	33.4	
1938	0.2	0.1	0.7*	0.4*	0.4*	0.2	0.2	3.6	17.7	22.7	2.5*	17.3	68.0	34.3	
No. Items	25	25	23	24	24	24	25	25	26	26	26	26			
Mean	6.88	3.97	6.26	8.76	6.48	3.10	6.11	22.16	54.36	29.72	43.38	9.03	#198.25		
% Mean															
Annual	3.47	2.00	3.16	4.42	3.27	1.56	3.08	11.19	26.42	14.99	21.88	4.56	100.00		

A-8A - Discharge of Arkansas River near Granada, Colorado

Drainage Area 23,478 Square Miles												Altitude 3,475A Feet		
Unit: Acre-Feet												ANNL. IN		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1903														
1904	63										6381	77		
No. Items	1										1	1		
Mean	63.0										6381.0	77.0	#6521.0x	





# A-9 - Discharge of Arkansas River at Holly, Colorado

Drainage Area 25,000 Square Miles

Altitude 3,387 Feet

Unit: 1,000 Acre-Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1908	P	9.3	15.9			P	1.1	0.9	25.6	8.2	2.6	F		
1909	F	22.1	18.0	18.0	3.9	2.5	1.0	0.5	27.2	28.7	33.5	93.6		
1910	10.9	9.5	17.3	15.0E	13.0E	11.3	9.6	5.1	3.0	2.6	56.5	0.6	154.4	64.2
1911	0.6	0.6	1.4	3.3	3.3	3.9	1.0	8.3	2.0	33.5	2.7	0.3	60.9	25.3
1912	3.4	20.6	24.9		20.8	25.3	8.2	1.0	36.7	6.4	67.3	14.4		
1913	6.1	11.5	12.8*	30.7	24.7	14.0	1.9	0.4	9.4	19.6	1.1	0.8	133.0	55.3
1914	0.9	1.3	10.6	14.0	8.8	4.0	2.4	172.0	189.0	103.0	54.8	1.5	567.3	255.9
1915	3.9	5.0		13.5	11.2	16.1	69.6	79.3	146.0	23.5	98.4	12.9		
1916	6.1	7.1	12.0	18.1	28.1	5.6	4.2	0.6	7.1	0.8	48.2	9.1	147.0	61.1
1917	3.8	3.7		16.5	9.6	5.9	P	F		2.4	4.5	4.4		
1918	3.0	1.4	4.1	6.3	4.6	4.9	2.0	1.7	5.7	8.0	2.6	6.3	50.6	21.0
1919	2.9	5.2	8.7			21.2	80.9	29.1	3.1	9.2	22.9	4.3		
1920	5.6	16.2	20.2	13.4E	9.9	4.4	5.2	5.6	3.0	29.1	49.6	25.6	192.8	80.2
1921	19.1	13.7	15.6	14.1*	11.2*	12.9	3.0	2.0	585.0	161.0	144.0	6.0	987.6	410.7
1922	5.4	5.0	11.9*	14.3*	18.6*	13.5*	12.7	7.9	1.3	0.7	13.2	0.3	104.8	43.6
1923	0.3	2.8	8.1	4.4	6.9	4.5	2.1	41.8	101.0	82.4	272.0	89.8	616.1	256.2
1924	121.0	40.5	34.4*	70.1*	57.5*	39.0	47.7	10.6	28.2	1.6	0.3	0.5	451.4	187.7
1925	1.2*	2.8*	9.2*	13.2*	9.6*	3.0	1.0	8.2	15.0	112.0	38.1	4.8	213.2	90.7
1926	4.8	13.7	7.9	14.6	12.2	2.2	4.8	6.2	20.3	8.3	0.2	0.1	95.3	39.6
1927	0.1	2.8	5.2	9.6	5.4	5.2	1.2	0.4	0.2	126.0	255.0	10.0	421.1	173.1
1928	3.4	4.3	10.9	12.3	7.4	5.2	2.2	40.1	134.0	10.1	1.5	1.8	231.2	93.2
1929	1.8	6.1	18.6	15.3	10.8*	8.4	1.6	2.0	4.7	1.8	127.0	8.4	206.2	55.9
1930	4.1	18.4	19.1	13.5	16.7	7.3	1.7	10.0	4.2	1.6	23.1	11.6	131.3	54.6
1931	53.2	13.6	20.2	17.0	18.6	17.7	13.1	5.8	6.2	0.2	0.5	0.1	164.2	69.1
1932	0.2	0.6*	5.0	8.8*	6.8*	2.6*	0.9	0.9	11.9	1.4	4.1	0.2	43.4	15.0
1933	0.2	0.2	0.5	3.9	4.1	0.9	0.5	26.0	10.4	8.6	54.0	29.7	155.0	57.8
1934	1.2	2.3	3.7	3.9	3.9	2.9	0.7	3.2	3.0	7.9	0.1	10.3	43.1	17.9
1935	0.3	0.2	0.5	1.7	0.6	0.5	0.2	36.4	46.1	45.7	21.8	14.8	143.9	70.2
1936	1.9	2.0	4.2	4.8	6.9	2.6	1.1	109.8	28.7	54.7	111.5	1.2	349.4	137.0
1937	2.6	3.2	6.3	3.8	7.1	4.4	1.8	1.1	39.6	2.8	1.1	59.3	133.1	55.4
1938	0.9	0.9	3.2	4.1*	2.3	1.4*	3.8	13.8	39.3	35.5	5.9	6.6	172.6	72.2
No. Items	29	31	29	28	29	30	30	30	30	31	31	30		
Mean	9.28	8.12	11.39	13.69	11.88	8.44	9.57	21.02	51.16	30.40	49.32	14.18	#240.45	
% M.A.	3.86	3.38	4.74	5.69	4.94	3.51	3.98	8.74	21.28	12.64	26.51	6.73	100.00	



# A-10 - Discharge of Tennessee Fork near Leadville, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 45 Square Miles										Altitude 10,000 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1890														% MEAN
1891	2.0							P	8.4	3.9	2.3	2.0		

1911					P		P	P	P	P	P	P		
1912	P				P		P	P	P	P	P	P		
1913	P	P					P	P	4.7	1.9	0.9	0.8		
1914	0.7	P			0.4E	0.5*	3.8	13.6	12.1	4.5		0.8		
1915	0.7	0.6		0.1*	0.1*	0.2*	P	P	6.0	1.7	0.9	0.6		
1916	0.5	P				P	P	7.5	6.7	3.3	2.4	1.4		
1917	0.7	P						P	10.1	4.6	0.5	0.4		
1918	0.2	0.3E	0.3E	0.3E	0.6E	0.7E		P	17.9	3.5	0.9	0.7		
1919	0.6	0.7		P	P	P	P	P	4.1	2.4	2.1	0.8		
1920	0.8	P					P	P	10.7	3.8	1.8	0.9		
1921	0.6	0.4*	0.5*	0.5*	0.4E	0.7*	1.1*	8.1	12.3	4.2	1.9	1.3	32.0	106.0
1922	0.4	0.6	0.6E	0.6*	0.5E	0.6*	1.1*	9.8	7.3	2.0	1.6	0.5	25.6	84.8
1923	0.1					0.7	1.3	10.0	14.2	6.5	2.6	1.5		
1924	1.2*	1.1*	0.6E	0.4*	0.5*	0.5*	3.1	7.7	9.7	2.6	0.6	0.4	28.4	94.1
No. Items	12	6	4	5	6	7	5	6	13	13	12	13		
Mean	0.71	0.62	0.50	0.38	0.42	0.56	2.08	9.45	9.55	3.45	1.54	0.93	#30.19	
% Mean														
Annual	2.35	2.05	1.66	1.26	1.39	1.86	6.89	31.30	31.63	11.43	5.10	3.08	100.00	

1903 Record: Gage heights only.







# A-10A - Discharge of Lake Fork near Arkansas Junction, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 21 Square Miles			Altitude 9,750A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1890							P	19.9	14.5	4.5	2.2	1.5			
1891	2.0														
No. Items	1							1	1	1	1	1			
Mean	2.00							19.90	14.50	4.50	2.20	1.50	#44.60x		
1903 Record: Gauge heights only.															

# A-10B - Discharge of Half Moon Creek near Leadville, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 30 Square Miles			Altitude 9,675A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1911							0.4	1.9	6.0	6.0	2.0	0.9			
1912	1.2	0.8						1.2	8.3	8.8	3.4	1.2			
1913	0.6							P	5.1	3.1	1.2	0.8			
1914	0.4	0.2						P	7.2	6.6	2.1	0.8			
No. Items	3	2					1	2	4	4	4	4			
Mean	0.73	0.50					0.40	1.25	7.02	6.12	2.13	0.92	#19.42x		

# A-10C - Discharge of Lake Creek Inter Lachen, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 104 Square Miles			Altitude 9,190A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1900															
No. Items										P	2.7	P			
Mean										1			#2.70x		



A-10D - Discharge of Twin Lakes Outlet near Twin Lakes, Colorado

Drainage Area 110 A Square Miles

Altitude 9,175A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1910														

A-10E - Discharge of Lake Creek below Twin Lakes, Colorado

Drainage Area 109 Square Miles

Altitude 9,012 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1890							1.4*	15.5	32.8	22.4	10.8	4.6		
1891	2.5													

1899														
1900														
1901														
Mean	2.50						1.40	15.50	32.80	22.40	9.05	4.60	44.25x	

A-10F - Discharge of Clear Creek at Granite, Colorado

Drainage Area 72 Square Miles

Altitude 5,900A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1890														
1891	1.0						P	11.5	21.2	14.6	6.0	1.4		

1907														
1908	2.3	2.8	2.1	1.4	1.3	1.4	2.0	4.6	22.5	27.4	8.7	2.5		
1909	0.6	0.9	1.2	1.0	0.9	0.8	1.1	3.4	16.9	12.0	6.2	1.0	52.8	92.7
1910								3.7	27.8	P				
1911	0.4	0.4						P	14.6	5.3	0.3	0.5		
No. Items	4	3	2	2	2	2	2	4	5	4	4	4		
Mean	1.08	1.37	1.65	1.20	1.10	1.10	1.55	5.80	20.60	14.00	5.40	1.55	456.90	
% M. A.	1.90	2.40	2.90	2.11	1.93	1.93	2.72	10.18	36.15	26.11	9.30	2.37	100.00	





# A-11 - Discharge of Cottonwood Creek below Hot Springs, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 72 Square Miles      Altitude 8,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1911							P	6.5	16.5	14.4	5.3	3.6		
1912	4.7	2.6	2.2	1.7*	1.1	1.3	1.2	6.3	15.2	11.8	6.5	2.8	57.4	120.5
1913	2.3	1.6	1.2	1.3	1.1	1.1	1.1	5.5	10.8	P	P	3.3		
1914	3.2	1.8	1.7	1.3	1.2	1.2	1.5	7.8	15.6	13.0	7.3	3.8	59.4	124.7
1915	3.0	1.9	1.4	1.2	1.1	1.4	1.7	4.4	13.2	10.3	3.2	2.6	45.4	95.3
1916	2.4	1.7	1.6	1.4	1.2	1.4	1.8	4.7	15.4	8.1	5.4	3.1	48.2	101.2
1917	2.7	2.1	1.9	1.6	1.3	1.4	1.3	2.2	14.5	11.9	5.0	2.6	48.5	101.8
1918	1.9	1.6	1.5	1.4	1.1	1.1	1.1	4.4	15.6	5.1	2.2	2.8	39.8	83.6
1919	2.1	1.7	1.6	1.5	1.2	1.3	1.6	6.5	8.2	5.3	2.6	2.0	26.3	76.2
1920	1.9	1.6	1.6	1.4	1.3	1.3	1.2	4.4	14.8	9.0	3.6	2.5	44.4	93.6
1921	2.1	1.9	1.7	1.5	1.3	1.5	1.4	5.3	18.1	9.8	4.1	3.0	51.7	108.5
1922	2.0	1.5	1.5	1.4	1.2	1.2	1.2	5.3	11.8	4.6	3.4	2.0	37.1	77.9
1923	1.4	1.5	1.6	1.4	1.1	1.2	1.3	4.7	16.3	10.5	5.7	3.6	50.3	105.6
No. Items	12	12	12	12	12	12	12	13	13	12	12	13		
Mean	2.48	1.72	1.62	1.42	1.18	1.26	1.37	5.23	14.56	9.48	4.54	2.90	47.63	
% Mean														
Annual	5.21	3.76	3.40	2.98	2.48	2.69	2.88	10.28	30.15	19.90	9.49	6.06	100.00	

# A-11A - Discharge of So. Fk. Cottonwood Creek near Buena Vista, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 28 Square Miles      Altitude 9,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1890							0.6*	4.4	7.2	6.0	3.3	F		
No. Items							1	1	1	1	1			
Mean							0.60	4.40	7.20	6.00	3.30		21.50x	





# A-11B - Discharge of Middle Fk. Cottonwood Creek near Buena Vista, Colorado

Unit: 1,000 Acre-Feet														
Drainage Area 37 Square Miles														
Altitude 10,400A Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1890							1.6*	5.1	7.2	4.3	1.5	P		
No. Items														
Mean	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1.60	5.10	7.20	4.30	1.50									#19.70x

# A-11C - Discharge of No. Fk. Cottonwood Creek near Buena Vista, Colorado

Unit: 1,000 Acre-Feet														
Drainage Area 50 Square Miles														
Altitude 8,200 Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	Avg. IN 3 years
1912	1.6	1.2	0.6	0.4E	0.3E	0.3	0.5	1.4	4.6	4.9	2.4	1.5	19.7	104.6
1913	0.7	0.7					P	P	P	P	P	1.2		
1914	1.0	0.9	0.7	P		P	P	P	P	P				
No. Items	3	3	2	1	1	1	1	1	1	1	1	2		
Mean	1.10	0.93	0.65	0.40	0.30	0.30	0.50	1.40	4.60	4.90	2.40	1.35	19.82	
% Mean														
Annual	5.84	4.94	3.45	2.12	1.59	1.59	2.66	7.44	24.43	26.02	11.75	7.17	100.00	



A-11D - Discharge of Chalk Creek (Upper Station) near St. Elmo, Colorado

Drainage Area 48 Square Miles														Altitude 10,000 Feet	
Unit: 1,000 Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
	1914		P	0.6	0.5*	0.4*	0.5	0.8	7.3	13.0	6.9	3.5	1.4		
	1915	1.1	0.6		P	0.4*	0.5*	1.0	4.1	10.5	5.1	2.1	1.1		
	1916	1.0	0.7	0.6	0.5	0.4	0.6	1.8	6.5	12.7	7.0	4.0	1.8	37.6	103.8
	1917	1.5	0.8	0.7	0.7	0.5	0.6	1.3	4.2	18.3	10.9	3.2	1.3	44.0	121.4
	1918	0.9	0.7	P				P	8.1	16.5	4.6	1.8	2.4		
	1919	1.5	1.0	0.8	0.6	0.5	0.8	1.2	8.4	8.4	5.1	2.2	1.5	32.7	90.2
	No. Items	5	5	4	4	5	5	5	6	6	6	6	6		
	Mean	1.20	0.76	0.68	0.58	0.44	0.60	1.22	6.43	13.23	6.60	2.92	1.58	436.24	
	% Mean														
	Annual	3.31	2.10	1.88	1.60	1.21	1.65	3.37	17.74	36.51	18.21	8.06	4.36	100.00	

A-11E - Discharge of Chalk Creek (Lower Station) near St. Elmo, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 75 Square Miles				Altitude 2,900 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN		
1911						P	1.2	10.4	23.6	15.9	5.4	3.0					
1912	7.5	1.9	1.4*	1.0*	0.7*	0.6*	0.9	7.8	26.2	17.8	8.3	2.8	76.9		126.0		
1913	1.8	1.4	1.0	0.6	0.5	0.6	0.9	8.6	18.2	9.4	P	4.0					
1914	2.3	1.3	1.1	1.0	0.9	1.0	1.3	9.9	19.5	13.5	7.0	2.9	61.7		101.1		
1915	2.4	P		P	P	P	1.6	5.9	16.1	7.5	3.3	2.2					
1916	2.1	1.6	1.6	1.4	1.3	1.4											
No. Items	5	4	4	4	4	4	5	5	5	5	4	5					
Mean	3.22	1.55	1.28	1.00	0.85	0.90	1.18	6.54	20.72	12.82	6.00	2.98	461.02				
% Mean																	
Annual	5.28	2.54	2.10	1.64	1.39	1.48	1.93	13.94	33.96	21.01	9.83	4.44	100.00				





# A-11G - Discharge of So. Fk. Arkansas River at Poncha Springs, Colorado

Unit: 1.000 Acre-Feet										Drainage Area 140 Square Miles			Altitude 7,471 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUL. IN	
														% MEAN	
1911				1.9	1.5	1.3	0.8	3.6	14.6	14.0	1.8	0.8			
1912	4.9	4.3	2.6	1.8E	1.6*	1.6*	1.2	6.3	20.4	5.3	1.0	1.1	52.1	125.9	
1913	1.3	2.2	2.1					4.4	P	1.4	1.2	0.4			
1914	P				1.6	1.5	0.5	9.1	15.6	7.9	4.4	0.5			
1915	1.3	2.3	1.8	2.0	1.9	2.0	2.5	5.8	12.0	3.7	1.5	1.1	37.9	91.6	
1916	1.5	2.3	3.0	2.7	2.6	2.1	0.9	5.2	11.5	5.2	3.5	0.9	41.4	100.0	
1917	1.7	2.2	2.4	2.1	1.7	1.7	0.4	0.7	10.9	4.9	1.6	0.8	31.1	75.1	
1918	0.4	1.1	2.6	2.2	1.9	1.4	0.2								
No. Items	6	6	6	6	7	7	7	7	6	7	7	7			
Mean	1.85	2.40	2.42	2.12	1.83	1.66	0.93	5.02	14.17	6.06	2.14	0.80	41.39		
% Mean															
Annual	4.47	5.80	5.85	5.12	4.42	4.01	2.25	12.10	34.24	14.64	5.17	1.93	100.00		



# A-12 - Discharge of South Fork Arkansas River near Salida, Colorado

Unit: Acre-Feet      Drainage Area 208 Square Miles      Altitude 7,036 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL
1922							1000	3760	2160	18	3	11		
1923	51					P	1600	8180	21700	3680	3860	2370		
1924	4480	4580	4000											
1929									P	1190	8790	7860		
1930	1940	4950			2630	2240	242	577	893	1270	1220	60		
1931	93	1490	P		2450	2600	744	275	65	52	19	49		
1932	31	952	2830	2340	2190	1500	511	5550	3670	368	588	90	20620	72.0
1933	640	1970	2400	2460	2110	775	226	4300	7800	36	18	143	22878	79.9
1934	83	1480	3090	2640	1770	489	2260	1490	46	33	57	92	13530	47.2
1935	294	730	3130	2700	2230	1250	194	1770	16840	1030	335	1270	31825	111.1
1936	2210	2730	3370	3330	2870	1130	722	13310	4710	672	7590	1890	44534	155.5
1937	2580	1970	3280	2640	3140	1950	1590	6850	1440	302	174	159	26405	92.2
1938	228	652	3010	1930	2300	1720	2170	5530	6080	294	99	2400	26413	92.2
No. Items	11	10	8	7	9	9	11	11	11	12	12	12		
Mean	1149.2	2153.4	3138.8	2577.1	2410.0	1517.1	1050.8	4690.2	5945.8	743.4	1896.1	1358.7	#25643.6	
% Mean														
Annual	4.01	7.52	10.96	9.00	8.41	5.30	3.67	16.37	20.76	2.60	6.62	4.78	100.00	



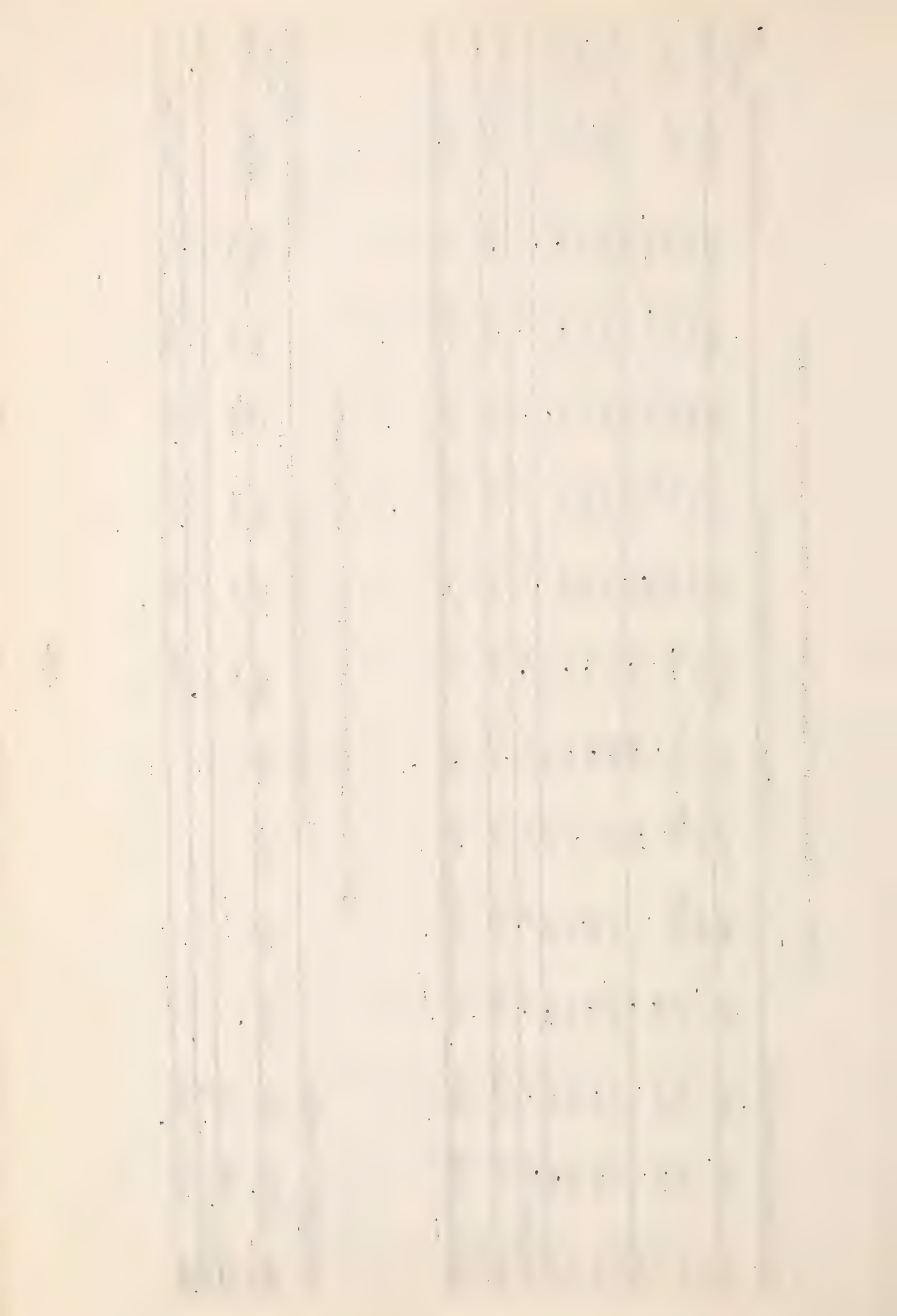
# A-12A - Discharge of Poncha Creek at Poncha Springs, Colorado

Unit: 1,000 Acre-Feet														Drainage Area 89 Square miles														Altitude 7,471 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL.IN																
														%	MEAN															
1911				0.4	0.4	0.7	1.9	7.4	5.8	5.8	2.4	1.3																		
1912	1.7	1.0	0.5	0.3E	0.4*	0.6*	1.1	7.4	7.0	2.0	0.8	0.3	23.1	118.3																
1913	0.4	0.4	0.2					3.5	P	1.3	0.7	0.6																		
1914	P				0.2	0.2	1.0	6.6	5.2	1.5	1.0	0.4																		
1915	0.6	0.5	0.3	0.4	0.4	0.4	1.7	4.7	6.4	1.8	1.0	0.6	18.8	96.3																
1916	0.7	0.5	0.5	0.5	0.5	0.7	1.4	5.2	4.8	1.6	1.4	0.6	18.4	94.3																
1917	0.5	0.5	0.6	0.5	0.5	0.6	1.0	2.5	5.7	1.8	0.7	0.4	15.3	78.4																
1918	0.4	0.4	0.6	0.5	0.4	0.5	0.9																							
No.Items	6	6	6	6	7	7	7	7	6	7	7	7																		
Mean	0.72	0.55	0.45	0.43	0.40	0.53	1.29	5.33	5.82	2.26	1.14	0.60	#19.52																	
% Mean																														
Annual	3.69	2.82	2.31	2.20	2.05	2.71	6.61	27.30	29.82	11.58	5.84	3.07	100.00																	

# A-12B - Discharge of Texas Creek at Mouth, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 150A Square Miles										Altitude 6,400A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNL.IN % MEAN
1923														
1924	1.9	1.6				P	0.9	0.1	0.1	2.0*	3.2	1.8		
No.Items	1	1					1	1	1	1	1	1		
Mean	1.90	1.60					0.90	0.10	0.10	2.00	3.20	1.80	#11.60x	





# A-13 - Discharge of Grape Creek near Westcliffe, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 346 Square Miles      Altitude 7,800 Feet  
 YEAR    OCT.    NOV.    DEC.    JAN.    FEB.    MAR.    APR.    MAY    JUNE    JULY    AUG.    SEPT.    ANNUAL    % MEAN

1925	1.1	2.1	1.7E	1.6E	1.4E	1.6E	0.6	0.8	0.4	1.6	4.0	1.2		
1926	0.7	1.2	1.0	1.4E	1.4E	3.2	4.9	9.4	10.4	3.1	1.4	0.5	40.6	163.1
1927	2.6	1.3	1.1E	1.1*	1.1*	4.2	2.1	0.7	2.8	2.7	4.2	3.0	24.8	99.6
1928														
1929														
1930														
1931														
1932														
1933														
1934														
1935														
1936														
1937														
1938														
No. Items	11	5	4	4	4	5	12	11	12	12	12	12		
Mean	1.12	1.30	1.38	1.32	1.25	2.48	2.59	5.40	4.28	2.09	2.30	1.36	#44.89	
% Mean														
Annual	4.50	5.22	5.55	5.30	5.02	9.26	10.41	15.66	17.20	13.40	9.44	5.34	101.60	

Unit: 1,000 Acre-Feet      Drainage Area 440A Square Miles      Altitude 5,400A Feet  
 YEAR    OCT.    NOV.    DEC.    JAN.    FEB.    MAR.    APR.    MAY    JUNE    JULY    AUG.    SEPT.    ANNUAL    % MEAN

1928				0.8	1.5	3.0*	1.3*							
No. Items				1	1	1	1							
Mean				0.80	1.50	3.00	1.30						#6.60x	

Records 1907-1909 consisted of miscellaneous discharges.



# A-14 - Discharge of West Beaver Creek near Victor, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 70 Square Miles      Altitude 8,000± Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1905				0.4	0.3	0.6	3.2	6.4	7.1	2.6	3.9	1.4		
1906	0.5	0.4	0.1	0.1	0.2	0.3	0.8	1.0	1.4	2.0	1.2	1.2	9.2	63.6
1907	5.2	3.3	0.6	0.3	0.4	0.5	0.5	1.1	0.9	1.1	0.6	0.3	14.8	102.3
1908	0.3	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.1	0.2	0.5	0.2	2.8	19.4
1909	0.2	0.2	0.1	0.1	0.1	0.2	0.8	0.5	0.6	0.5	1.7	3.2	8.2	56.7
1910	0.8	0.5	0.8	0.5	0.3	1.6	1.5	2.5	1.2	0.6	0.9	0.7	11.9	82.2
1911	0.6	0.4	0.4	0.3	0.2	0.5	0.7	0.9	0.4	1.2	1.2	0.7	7.5	51.8
1912	0.6	0.3	0.3	0.2	0.2	0.3	0.7	1.6	1.4	1.8	1.5	0.7	9.6	66.3
1913	0.7	0.4	0.3	0.1	0.2	0.4	1.0	0.6	2.4	0.9	0.8	0.8	8.6	59.4
1914	0.6	0.5	0.4	0.3	0.4	0.9	2.3	8.7	6.8	7.0	3.8	1.4	33.1	228.7
1915	1.0	0.6	0.6	0.3	0.2	0.5	3.4	2.3	3.8	1.8	1.7	1.0	17.2	118.9
1916	0.7	0.4	0.3	0.2	0.4	0.5	0.5	1.5	0.8	0.5	1.1	0.5	7.4	51.1
1917	0.5	0.3	0.3	0.2	0.2	0.3	0.6	0.8	1.3	0.9	0.8	0.7	6.9	47.7
1918	0.6	0.3	0.3	0.3	0.2	0.5	0.7	1.0	1.0	3.1	1.9	1.0	10.9	75.3
1919	0.8	0.4	0.4	0.3	0.3	0.4	3.1	5.0	2.1	2.9	1.4	0.8	17.9	125.7
1920	0.5	0.4	0.3	0.4	0.5	0.5	0.7	1.4	1.2	0.8	2.3	1.6	10.6	73.3
1921	0.9	0.5	0.3	0.3	0.3	0.9	1.2	4.0	20.1	3.0	3.7	1.8	37.0	255.7
1922	0.9	0.7	0.4	0.3	0.3	0.6	0.9	0.9	0.7	0.8	1.0	0.7	8.2	56.7
1923	0.5	0.4	0.4	0.3	0.2	0.3	0.9	0.9	1.1	4.1	4.3	3.1	16.5	114.0
1924	2.9	1.3	0.8	0.4	0.5	0.4	2.1	2.6	3.5	1.3	0.4	0.3	16.5	114.0
1925	0.4	0.3	0.2	0.6	0.5	0.5	0.6	0.3	0.2	0.4	0.9	0.7	5.6	35.7
1926	0.3	0.1	0.4	0.8	0.7	0.5	0.8	3.0	4.9	4.1	1.9	1.2	18.7	129.2
1927	1.1	1.0	1.0	0.8	0.5	0.6	0.7	0.8	0.8	0.8	1.0	1.1	10.2	70.5
1928	1.1	1.1	1.1	1.0	0.8	0.7	0.6	0.8	2.0	1.3	1.2	1.1	12.8	83.5
1929	1.1	0.9	0.7	0.3	0.2	0.7	1.1	1.4	1.4	3.6	15.0	4.2	25.6	197.7
1930	1.7	1.3	0.6	0.4	0.5	0.6	1.4	1.1	1.3	1.6	5.5	1.4	17.4	113.9
No. Items	25	25	25	26	26	26	26	26	26	26	26	26		
Mean	0.98	0.65	0.45	0.36	0.33	0.54	1.20	1.98	2.61	1.89	2.24	1.22	714.47	
% M.A.	6.77	4.49	3.11	2.49	2.28	3.73	8.29	13.69	18.15	13.06	15.45	8.43	100.00	





# A-15 - Discharge of Boehmer Creek near Flkes Peak, Colorado

Drainage Area 7.2 Square Miles														Altitude 11,000 Feet	
Unit: Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN	
														% MEAN	
1910	402	309	278	196	168	224	268	836	493	438	670	368	4650	106.4	
1911	248	193	175	92	97	89	161	707	453	885	1140	430	4670	106.8	
1912	450	31	112	167	132	36	162	525	970	416	498	201	3700	84.6	
1913	269	439	245	87	75	111	130	212	342	627	579	774	3890	89.0	
1914	399	175	149	118	88	98	118	1190	2250	2290	1580	555	9010	206.1	
1915	303	192	136	83	75	82	80	792	1330	1660	1700	767	7200	164.7	
1916	317	267	110	68	71	83	213	343	220	148	470	440	2750	62.9	
1917	365	133	96	87	63	68	64	112	477	391	490	140	2492	57.0	
1918	219	420	45	34	30	34	42	495	340	799	738	354	3550	81.2	
1919	212	137	115	60	50	66	156	1260	1150	972	615	227	5020	114.8	
1920	174	205	82	66	295	168	58	327	329	307	769	540	5320	75.9	
1921	269	209	153	105	218	97	104	428	1010	1100	1240	857	6590	150.7	
1922	234	168	111	83	80	199	49	405	196	433	615	277	2850	65.2	
1923	152	94	88	67	41	45	52	255	425	1350	1210	231	4010	91.7	
1924	461	361	205	119	71	66	60	732	1310	319	161	845	4710	107.7	
1925	65	44	39	25	22	27	58	111	83	130	281	815	1700	38.9	
1926	113	74	57	45	41	45	60	905	1400	1190	714	336	4980	113.9	
1927	178	107	104	82	60	44	85	372	329	928	941	440	3670	83.9	
1928	188	123	121	86	52	51	60	397	1010	489	320	193	3090	70.7	
1929	420	73	57	58	36	43	34	159	360	756	2630	904	5800	132.7	
1930	413	209	168	141	108	112	147	315	540	600	983	424	4160	95.2	
No. Items	21	21	21	21	21	21	21	21	21	21	21	21			
Mean	278.6	188.7	126.3	89.0	89.2	85.1	102.9	518.0	754.1	772.8	875.4	461.2	#1371.9		
% Mean															
Annual	6.37	4.32	2.89	2.03	2.04	1.95	2.35	11.85	17.23	17.69	20.26	11.02	100.00		



# A-16 - Discharge of Little Beaver Creek near Fikes Peak, Colorado

Unit: Acre-Feet      Drainage Area 1.0 Square Miles      Altitude 11,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	3 YEAR
1910	32	17	16	22	13	15	18	396	42	12	16	12	613	144.4
1911	10	10	6	4	3	4	41	70	81	78	62	31	400	94.2
1912	21	13	10	10	0	10	0	47	127	54	39	18	349	82.2
1913	13	6	0	0	0	0	0	22	102	74	46	33	296	69.7
1914	33	21	6	0	0	0	0	106	339	133	141	38	617	192.4
1915	21	14	0	0	0	0	0	51	340	97	58	32	613	144.4
1916	25	6	1	0	0	1	4	27	48	30	35	20	197	46.4
1917	17	6	3	0	0	0	0	0	108	71	53	46	304	71.6
1918	26	13	8	0	0	0	0	46	61	73	90	38	355	83.6
1919	20	13	11	10	3	0	17	137	92	86	47	27	463	109.0
1920	15	7	5	10	6	3	5	42	56	42	78	71	340	80.1
1921	43	21	12	7	4	3	5	59	239	84	60	55	592	139.4
1922	34	24	9	6	1	1	1	16	48	44	41	28	253	59.6
1923	18	18	16	11	9	6	9	52	132	83	93	67	514	121.1
1924	58	32	15	12	6	6	7	57	185	51	23	13	462	109.5
1925	15	6	4	3	1	1	4	16	19	22	43	36	170	40.0
1926	23	11	3	1	1	1	4	110	161	86	50	33	484	114.0
1927	11	10	10	10	5	3	6	50	58	57	59	43	322	75.9
1928	24	14	12	8	3	4	5	60	93	57	30	19	329	77.5
1929	15	9	6	3	4	4	3	22	97	108	283	110	664	156.4
1930	56	17	10	6	3	3	7	37	65	52	75	45	376	88.6
No. Items	21	21	21	21	21	21	21	21	21	21	21	21		
Mean	25.2	13.7	7.7	5.9	3.0	3.1	6.5	67.8	115.7	66.4	67.8	35.8	442.6	
% Mean														
Annual	5.93	3.23	1.80	1.39	0.71	0.73	1.53	15.97	27.96	15.74	15.97	9.14	100.00	





# A-17 - Discharge of Sackett Creek near Pikes Peak, Colorado

Unit: Acre-Feet

Drainage Area 0.65 Square Miles

Altitude 11,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1910	41	17	14	13	8	14	33	97	61	11	24	13	346	126.9
1911	8	6	6	0	0	0	13	98	46	70	78	20	345	126.6
1912	9	21	0	0	0	4	0	47	123	54	33	19	310	113.7
1913	9	4	0	0	0	0	0	36	53	52	34	28	216	79.2
1914	25	14	0	0	0	0	0	122	139	91	119	24	584	214.2
1915	11	4	0	0	0	0	0	101	199	60	42	27	444	162.9
1916	14	1	0	0	0	1	4	51	58	12	9	6	156	57.2
1917	6	0	0	0	0	0	0	10	75	26	12	6	135	49.5
1918	3*	2*	2*	0	0	0	0	55	51	55	37	16	221	81.1
1919	10	1	0	0	0	0	5	135	43	28	13	7	242	88.9
1920	2	0	0	0	0	0	0	26	27	19	76	50	200	73.4
1921	17	P	0	0	0	0	0	P	189	66	59	52		
1922	23	6	0	0	0	0	2	20	26	22	23	15	137	50.3
1923	7	1	0	0	0	0	1	42	65	49	54	38	257	94.3
1924	27	13	3	0	0	0	2	86	103	11	2	1	248	91.0
1925	3	1	0	0	0	0	2	7	3	6	20	14	56	20.5
1926	7	1	0	0	0	0	1	117	171	49	21	8	375	137.6
1927	1	1	0	0	0	0	3	36	29	17	18	13	118	43.3
1928	11	2	1	0	0	1	8	63	117	37	17	8	265	97.2
1929	2	1	1	0	0	1	1	12	61	47	204	79	409	150.0
1930	24	4	3	0	0	0	4	19	35	47	58	17	211	77.4
No. Items	21	20	20	20	20	20	20	20	21	21	21	21		
Mean	12.4	5.0	1.4	0.6	0.4	1.0	3.8	52.0	62.1	59.5	42.4	22.0	727.6	
% Mean														
Annual	4.55	1.83	0.51	0.22	0.15	0.37	1.39	21.65	30.12	14.49	16.65	8.87	100.00	





# A-17A - Discharge of Fountain River at Manitou, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 60A Square Miles			Altitude 6,300A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	
1926						P	1.7*	4.9	4.5	3.6	1.9	1.1			
No. Items							1	1	1	1	1	1			
Mean							1.70	4.90	4.50	3.60	1.90	1.10		#17.70x	

# A-17B - Discharge of Fountain River at Colorado Springs, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 409 Square miles			Altitude 5,900 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	
1922						P	2.7	2.8	5.3	1.8	2.0	0.7			
1923	1.1				1.2E	1.4*	1.4	1.3	5.5	8.2	5.4	4.5E			
1924	5.5E	4.8E				P	8.4	12.9	8.2	2.2	1.8	0.9			
No. Items	2	1			1	1	3	3	3	3	3	3			
Mean	3.20	4.80			1.20	1.40	4.17	5.63	6.23	4.87	3.07	2.35		#16.00x	

# A-17C - Discharge of Fountain River at Pueblo, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 836A Square Miles			Altitude 4,675 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN	
1922							2.1	4.5	1.0	0.7	4.5	0.1			
1923	0.5	0.3	0.9	0.7	1.2	1.0	0.3	2.5	9.1	23.9	13.0	8.6		62.0 139.5	
1924	11.3	10.5	5.5	2.3	4.3	4.5	5.9	11.4	12.9	0.1	0.5	0.1		69.3 156.0	
1925	0.5	0.4	1.6	2.4	1.9	0.3	0.1	1.2	0.5	4.0	3.4	0.3		13.8 37.8	
No. Items	3	3	3	3	3	3	4	4	4	4	4	4			
Mean	4.10	3.73	2.67	1.80	2.47	1.93	2.10	4.90	5.00	7.18	5.15	2.32		#44.43	
% Mean															
Annual	2.23	8.40	6.01	4.05	5.56	4.34	4.73	11.03	13.23	16.16	12.04	5.22		100.00	



# A-18 - Discharge of Lion Creek near Halfway, Colorado

Drainage Area 2.0 Square Miles														Altitude 2,200 Feet	
Unit: Acre-Feet														ANL.L.I.	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1908															
1909	55	45	40	35	32	37	39	38	43	28	43	42	622	50.2	
1910	115	75	61	53	42	56	59	67	52	50	69	73	700	100.0	
1911	63	33	37	31	22	26	34	28	23	33	33	79	492	63.1	
1912	65	56	48	40	34	41	64	86	77	82	125	92	812	104.6	
1913	81	61	38	40	38	37	71	58	42	30	66	82	652	83.6	
1914	86	66	58	44	36	42	32	140	119	200	229	143	1982	144.3	
1915	110	87	67	53	45	47	71	150	111	188	157	130	1130	107.4	
1916	103	76	64	52	45	47	52	71	45	60	89	87	791	101.4	
1917	70	50	43	33	28	29	42	65	63	44	56	57	560	74.3	
1918	56	47	41	33	27	41	45	49	41	52	90	92	614	76.7	
1919	78	59	45	39	29	32	64	103	71	76	88	70	759	97.3	
1920	61	51	43	37	36	37	33	50	36	33	47	84	553	70.2	
1921	106	79	64	38	30	43	64	103	192	139	151	151	1160	143.7	
1922	118	84	70	47	41	42	53	52	45	40	98	100	790	101.2	
1923	87	64	49	41	31	33	54	53	48	65	109	123	762	97.7	
1924	116	94	74	55	42	39	72	117	88	112	87	71	967	123.9	
1925	68	52	25	13	4	20	30	36	22	27	44	61	402	51.5	
1926	73	60	42	31	26	37	73	117	69	124	114	85	851	109.1	
1927	71	52	37	53	31	31	44	39	34	31	87	104	614	78.7	
1928	82	64	50	40	33	40	55	111	94	110	135	99	913	117.0	
1929	80	62	50	47	35	44	51	60	42	60	243	190	964	123.5	
1930	134	98	73	53	41	43	65	65	46	53	111	109	891	114.2	
No. Items	22	22	22	22	22	22	23	23	25	23	23	22			
Mean	85.5	64.3	50.9	41.3	33.1	38.4	55.2	73.7	62.5	72.0	103.0	98.0	#780.5		
Annual	10.96	8.24	6.52	5.29	4.24	4.92	7.07	9.43	6.14	8.23	13.21	12.66	100.00		





# A-19 - Discharge of Sheep Creek near Halfway, Colorado

Unit: Acro-Feet

Drainage Area 0.73 Square Miles

Altitude 9,100 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1908	20	13	13	13	2	9	16	28	14	11	31	29	476	71.4
1909	49	26	16	14	10	21	15	21	19	17	35	48	350	55.3
1910	25	18	17	12	6	7	13	17	9	21	50	34	329	53.2
1911	31	22	18	12	9	12	23	76	76	81	80	48	488	126.2
1912	39	26	16	11	7	10	38	39	29	28	40	43	325	84.3
1913	41	26	20	16	13	13	60	143	127	165	132	61	822	212.6
1914	44	32	21	16	11	14	57	130	107	87	105	74	698	180.5
1915	49	32	22	16	14	15	24	67	32	35	75	47	423	110.7
1916	32	22	17	11	8	9	22	53	51	28	29	24	306	79.1
1917	23	18	12	9	7	14	26	43	30	43	50	35	310	80.2
1918	26	22	20	17	12	12	44	109	37	42	32	23	411	106.2
1919	21	17	14	14	13	14	15	54	23	17	74	51	305	78.5
1920	34	29	18	14	12	18	34	87	176	91	82	72	677	175.1
1921	46	27	21	12	3	6	14	22	21	19	75	41	307	79.4
1922	25	15	13	10	4	8	18	25	22	56	73	80	349	90.3
1923	68	42	26	18	13	10	45	95	62	45	26	12	412	111.7
1924	14	12	8	5	4	6	8	12	5	13	32	29	148	38.3
1925	21	15	8	7	7	10	38	114	50	68	43	23	404	104.5
1926	17	14	14	11	5	8	16	19	13	16	72	47	252	65.2
1927	32	19	14	12	8	12	18	89	58	61	66	31	420	108.6
1928	20	14	12	9	5	8	18	18	9	16	177	77	583	22.0
1929	41	24	13	8	11	14	27	25	19	36	71	42	331	85.6
No. Items	22	22	22	22	22	22	23	23	23	23	23	23		
Mean	32.6	22.0	16.1	12.1	8.7	11.6	26.3	56.7	44.2	44.7	65.4	43.6	#166.7	
% Mean														
Annual	8.43	5.69	4.16	3.13	2.23	3.00	6.93	14.66	11.43	11.56	16.91	11.65	100.00	



# A-20 - Discharge of So. Ruxton Creek near Halfway, Colorado

Drainage Area 3.95 Square Miles														Altitude 9,000 Feet
Annual														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1906									133	221	181			
1907	125	170	114	83	61	62	70	144	231	158	215	117	1530	98.7
1908	92	70	56	52	42	51	55	53	41	71	264	173	1020	64.9
1909	93	72	64	59	52	53	78	121	143	134	192	363	1410	91.7
1910	177	108	87	78	53	76	107	189	196	152	171	124	1530	97.4
1911	96	76	66	61	50	59	65	88	81	144	155	89	1030	65.6
1912	74	59	49	45	39	42	59	155	33	205	175	194	1240	76.9
1913	87	69	53	45	39	44	63	86	130	154	154	181	1115	70.7
1914	120	82	74	64	50	60	174	446	570	413	252	195	2600	155.5
1915	140	112	92	77	63	63	125	394	532	306	331	225	2460	156.6
1916	166	115	96	80	69	68	83	194	164	125	317	193	1670	106.3
1917	128	96	81	67	53	56	67	131	242	182	155	142	1460	89.1
1918	113	86	73	61	52	68	84	132	140	297	256	156	1520	96.8
1919	115	90	76	67	52	56	143	458	315	278	193	137	1970	126.1
1920	113	82	71	64	55	59	62	121	133	114	363	213	1450	92.3
1921	159	105	85	74	56	69	99	339	893	390	269	202	2720	173.2
1922	140	103	87	64	50	47	64	83	95	130	330	177	1370	87.2
1923	108	81	71	63	50	54	71	129	204	239	287	243	1600	101.9
1924	231	173	114	87	70	67	127	336	409	225	144	107	2090	131.1
1925	97	73	63	53	44	52	53	61	50	64	151	147	908	57.6
1926	83	62	53	40	36	38	84	397	519	240	170	118	1340	117.2
1927	92	65	55	53	46	54	55	73	70	93	224	130	1010	64.3
1928	91	67	57	50	43	44	61	250	328	182	188	109	1470	93.6
1929	87	71	64	56	40	47	76	132	165	151	511	260	1660	105.7
1930	159	108	74	60	36	58	79	83	83	159	283	150	1332	84.3
No. Items	24	24	24	24	24	24	24	24	25	25	25	25		
Mean	119.6	91.5	74.0	62.6	50.2	56.3	83.7	121.1	244.5	193.1	41.5	112.5	8357.6	
% Mean														
Annual	7.62	5.83	4.71	3.99	3.20	3.52	5.33	12.12	15.55	12.37	15.36	10.35	100.00	





# A-21 - Discharge of Cabin Creek near Halfway, Colorado

Drainage Area 2.4 Square Miles														Altitude 2,000 Feet	
Unit: Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1907	199	142	74	43	32	31	41	103	102	80	121	62	1030	95.8	
1908	54	33	25	17	11	20	23	32	19	18	70	86	408	37.9	
1909	53	30	20	15	12	14	36	57	92	60	117	240	746	69.4	
1910	109	47	30	19	18	37	60	103	90	79	78	80	750	69.7	
1911	66	51	38	32	16	31	45	61	53	115	163	82	758	70.4	
1912	67	48	39	19	12	24	55	180	251	231	220	104	1250	116.2	
1913	75	56	29	17	16	17	67	85	82	83	129	120	781	72.6	
1914	23	57	45	36	28	37	118	315	387	419	283	122	1940	180.3	
1915	52	57	35	29	25	26	90	263	385	297	290	181	1760	163.6	
1916	101	62	50	39	32	37	61	157	100	71	176	124	1010	93.9	
1917	69	45	32	16	9	13	31	96	149	80	76	64	690	63.2	
1918	53	41-	32	23	16	37	52	105	92	132	170	129	692	62.0	
1919	92	62	46	35	23	27	102	268	136	164	111	74	1140	106.0	
1920	61	48	39	30	25	25	32	100	92	64	196	170	842	62.0	
1921	96	62	43	30	29	41	78	244	340	260	247	250	1700	150.0	
1922	119	68	52	30	8	22	48	75	86	79	240	142	999	90.1	
1923	96	67	50	39	22	29	64	100	112	234	248	249	1510	121.3	
1924	203	133	79	54	38	38	101	280	214	124	71	52	1460	135.9	
1925	61	43	25	13	5	13	29	42	23	31	106	193	325	48.3	
1926	88	60	45	34	27	38	84	302	249	236	156	81	1390	120.3	
1927	57	37	32	26	16	25	48	56	60	69	249	172	647	78.7	
1928	105	68	50	27	26	43	66	242	252	210	210	103	1810	131.1	
1929	71	68	41	35	27	25	48	88	72	87	411	237	1200	111.5	
1930	124	75	54	35	33	35	65	67	72	117	291	112	1620	94.8	
No. Items	24	24	24	24	24	24	24	24	24	24	24	24			
Mean	91.4	60.8	41.9	28.9	21.1	28.5	60.2	141.5	146.3	145.7	154.6	150.8	#1175.7		
% Mean															
Annual	8.50	5.65	3.89	2.69	1.96	2.65	5.60	13.25	13.60	13.08	16.97	12.16	100.00		





# A-22 - Discharge of Southerland Creek near Manitou, Colorado

Unit: Acre-Feet		Drainage Area 4.4 Square Miles										Altitude 6,600 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1918				37	37	46	45	52	57	151	86	57		
1919	53	50	49	43	37	49	114	299	148	90	67	63	1070	130.6
1920	53	47	46	46	40	43	52	88	71	47	109	75	717	87.5
1921	48	43	39	34	31	42	82	248	494	202	138	89	1490	161.9
1922	49	33	34	34	33	31	45	61	49	30	89	46	534	65.2
1923	42	33	34	17	20	28	33	80	50	70	93	80	580	70.8
1924	22	93	73	31	32	41	98	275	339	97	54	38	1270	155.1
1925	41	32	30	28	24	29	26	41	23	15	31	33	553	43.1
1926	33	25	21	22	20	24	75	220	180	88	51	43	802	97.9
1927	30	26	23	25	21	27	47	39	46	42	79	61	466	56.9
1928	40	29	28	25	22	32	43	230	192	105	87	43	676	107.0
1929	41	41	42	34	28	34	51	76	63	33	32	103	912	111.4
1930	68	53	49	40	34	39	57	93	102	78	174	54	676	107.0
No. Stations	1	12	12	13	13	13	13	13	13	12	13	13		
Mean	42.5	42.5	32.0	32.0	29.2	35.8	59.1	138.6	139.7	61.2	109.0	51.1	719.0	
% Mean														
Annual	6.00	5.19	4.76	3.91	3.57	4.37	7.22	16.92	17.06	9.91	13.31	7.70	100.00	



# A-23 - Discharge of Bear Creek near Colorado Springs, Colorado

Unit: Acre-Feet      Drainage Area 6.9 Square Miles      Altitude 6,615 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1918					74	98	120	135	141	310	204	142		
1919	132	111	100	85	74	109	275	508	231	154	109	132	2020	135.1
1920	114	104	96	87	101	117	114	145	115	84	204	149	1430	95.7
1921	127	126	105	95	85	102	244	420	1137	393	245	171	3250	217.4
1922	133	108	97	75	54	60	71	71	76	60	204	81	1090	72.9
1923	64	62	54	45	32	51	70	64	55	214	150	156	1050	70.2
1924	208	230	140	87	77	82	256	375	302	157	76	50	2120	141.2
1925	53	54	50	43	38	47	36	53	28	57	87	70	616	41.2
1926	59	44	37	29	28	47	222	345	224	175	89	71	1370	91.6
1927	55	48	40	36	27	47	67	46	91	83	250	139	929	62.1
1928	106	73	43	34	26	55	74	302	279	181	138	79	1390	93.0
1929	77	52	45	36	25	46	72	93	112	70	427	125	1250	83.6
1930	127	70	65	41	35	37	71	127	117	130	342	182	1550	92.0
Mc Intosh	12	12	12	12	12	13	13	13	13	13	13	13		
Mean	104.6	90.2	72.7	57.8	50.2	69.1	130.2	206.5	232.4	159.1	197.1	124.4	11195.0	
% Mean														
Annual	7.00	6.03	4.86	3.37	3.36	4.62	9.71	13.81	15.55	10.64	13.13	8.32	100.00	

# A-23½ - Discharge of St. Charles River near San Isabel, Colorado

Drainage Area 18.8 Square Miles														Altitude	Feet
Unit: Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
	1937	775	411	184				924	1190	738	365	135	147		
	1938	122	130	78	50	57	97	1520	2120	1050	1520	408	344	7506	119.3
	1939	2	2	2	1	1	1	2	2	2	2	2	2		
	1940	270.5	131.0	50.0	50.0	57.0	97.0	1222.0	1655.0	894.0	942.5	271.5	245.5	76209.5	
% Mean.															
Annual	7.21	4.30	2.08	0.80	0.91	1.54	19.43	26.31	14.21	14.99	4.32	3.90		100.00	





# A-24 - Discharge of St. Charles River at Burnt Mill, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 166 Square Miles      Altitude 5,500A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1923						0.7*	1.9	2.3	0.5	2.1	6.8	4.9		
1924	4.1	2.2	2.0*	1.9*	1.7*	1.6	8.2	10.1	3.8	0.6	0.3	0.2	36.7	168.3
1925	0.2	0.2*	0.2*	0.7*	0.4	0.4	0.4	0.4	0.3	6.6*	3.4	0.5	13.7	62.8
1926	0.3	0.4*	0.6*	0.5*	0.8*	1.9	9.6	13.1	4.0	0.6	0.3	0.2	32.3	148.2
1927	0.2	0.3	P		P	0.2	0.6	0.5	0.9	4.7	12.1	1.6		
1928	1.1	P					4.1	22.4	10.3	3.7	0.7	0.3		
1929	0.4	P				P	1.0	1.9	0.7	1.0	6.8	1.1		
1930	0.5	1.1				0.7	1.0	1.0	0.5	1.0	1.3	0.6		
1931	0.3	0.4	0.8*	0.8*	0.6*	1.0	2.6	11.6	5.9	0.7	0.5*	0.4	25.6	117.4
1932	0.4	0.4	0.5*	0.5*	0.5*	0.4	0.6	0.6	0.4	0.4	0.4*	0.2*	5.5	25.2
1933	0.2*	0.2E	0.2*	0.3	0.2	0.2	1.0	12.9	4.4	0.8	0.8	0.9	22.1	101.4
1934	0.4	0.4	P			0.7	1.2	1.1	0.4	0.2	0.3	0.2		
No. Items	11	9	6	6	6	10	12	12	12	12	12	12		
Mean	0.74	0.62	0.72	0.78	0.70	0.78	2.77	6.49	2.62	1.87	2.31	0.34	221.80	
% Mean														
Annual	3.40	2.94	3.30	3.58	3.21	3.58	12.71	29.77	12.23	8.53	12.24	3.35	100.00	

# A-24A - Discharge of St. Charles River at Mouth, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 488A Square Miles      Altitude 4,575A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1922							0.6	0.9	0.7	0.5	0.8	0.2		
1923	0.2	0.6	0.5	0.3*	0.4	0.8	1.5	1.5	0.8	5.3	31.4	7.3	50.6	171.5
1924	6.5	1.3	1.5E	1.2*	1.0*	1.0	5.7	12.7	5.7	1.4	0.3	0.2	35.5	130.5
1925	0.5	0.4	0.6*	0.5*	0.4	0.4	0.2	1.8	0.5	9.8	3.4	0.7	19.2	65.1
No. Items	3	3	3	3	3	3	4	4	4	4	4	4		
Mean	2.40	0.77	0.87	0.67	0.60	0.73	2.00	4.22	1.92	4.25	8.98	2.10	229.51	
% Mean														
Annual	8.13	2.61	2.95	2.27	2.03	2.47	6.78	14.30	6.51	14.40	30.43	7.12	100.00	



A-24B - Discharge of Greenhorn Creek at Rye, Colorado

Drainage Area 12 Square Miles														Altitude 6,850A Feet	
ANNUAL IN															
Unit: Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
	1923				111E	86E	153	199	621	510	381	965	797		
	1924	563	333	199*											
	1925		1	1	1	1	1	1	1	1	1	1	1		
	1926	530	330.0	199.0	111.0	86.0	153.0	199.0	621.0	510.0	381.0	965.0	797.0	4919.0	
Annual	11,445	6.77	4.05	2.26	1.75	3.11	4.05	12.63	10.37	7.73	19.61	16.10		100.00	

A-25 - Discharge of Huerfano River at Manzanares Crossing, Colorado

Drainage Area 76 Square Miles										Altitude 8,000A Feet				
Unit: 1,000 Acre-Feet												ANNUAL IN		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1923										P	4.1	3.0		
1924	2.3	1.8	1.3*	0.9E	0.7E	1.1E	2.7	8.6	8.2	3.9	1.7	1.1	34.4	152.7
1925	1.0	0.8	0.7E			P	1.5	3.1	2.2	2.1	2.0	1.2		
1926	1.1						1.6	8.1	7.4	3.2	1.4	0.8		
1927	0.8					P	1.2*	3.4	3.4	2.9	3.0	2.5		
1928	1.5					P	1.3	5.8	5.4	2.5	2.6	1.3		
1929	1.3	1.3*					1.3*	5.0	6.2	3.2	5.3	4.2*		
1930	1.8	1.3*					1.6	2.2	3.5	3.2	3.5	1.2		
1931	1.1						1.3	5.2	5.4	2.7	1.3	2.3		
1932	1.7	0.8E				0.9*	2.4	7.4	6.8	4.7	2.9	1.2		
1933	0.9	0.7E					1.0	4.1	8.3	2.7	2.1	2.6		
1934	1.0	P					P	3.4	1.6	1.2	1.0	1.2		
1935	0.9	0.6				0.8	0.8	2.7	8.0	4.7	3.6	1.3		
1936	1.4					0.7	1.5	3.8	3.5	2.9	5.5	2.3		
1937	1.7	1.4	0.7	0.5	0.7	0.8	3.5	8.8	7.2	3.5	1.8	1.4	32.0	123.4
1928	1.0	0.8*	0.2*	0.5E	0.5E	0.8E	2.2	7.9	9.8	3.4	1.3	2.7	32.3	121.0
No. Items	15	9	4	3	3	6	14	15	15	15	16	16		
Mean	1.30	1.06	0.88	0.63	0.63	0.85	1.71	5.30	5.80	3.12	2.73	1.92	425.93	
% Mean														
Annual	5.01	4.09	3.39	2.43	2.43	3.28	6.59	20.44	21.37	12.03	10.31	7.41	100.00	
							-146							





# A-25A - Discharge of Huerfano River at Malachite, Colorado

Drainage Area 100A Square Miles													Altitude 7,500A Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1923						P	1.0	2.4	3.0	1.8	3.5	2.5		
No. Items							1	1	1	1	1	1		
Mean							1.00	2.40	3.00	1.80	3.50	2.50	#14.20x	

# A-25B - Discharge of Huerfano River at Badito, Colorado

Drainage Area 550 Square Miles														Altitude 6,400A Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN	
1912															
1913	0.2	0.2									P	0.3			
1923							1.0*	2.0	1.2	3.9	4.0	3.1			
1924	1.3	1.5	0.9*	0.9E	1.5*	1.6*	3.6	10.1	5.1	1.1	0.8	0.3	29.2	139.3	
1925	0.3	0.7	0.6E			P	0.8	0.9	1.1	1.4	1.4	0.5			
1926						P	1.3	5.1	3.8	2.3	1.2	3.2			
No. Items	3	3	2	1	1	1	4	4	4	4	4	5			
Mean	0.60	0.80	0.75	0.90	1.50	1.60	1.68	4.5-	2.80	2.30	2.05	1.48	#20.90		
Annual	2.86	3.81	3.57	4.29	7.15	7.63	8.01	21.54	13.35	10.96	9.77	7.06	100.00		





# A-25C - Discharge of Huerfano River at Huerfano, Colorado

Unit: Acre-Feet

Drainage Area 712A Square Miles

Altitude 5,625A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	Alt.
1924							714.0	591.0	550.0	234.0	397	0		
1925	2	111				P	20	97	8	2610	1660	391		
1926	173	244	357E				371	3460	4810	1460	192	97		
1927	70	P				664	149	32	333	2750	5910	726		
1928	442					P	34	3280	2410	1070	840	147		
No. Items	4	2	1			1	5	5	5	5	5	5		
Mean	171.8	177.5	357.0			664.0	1542.8	2555.3	1612.2	2446.0	1805.4	272.4	711,404.7x	

# A-25D - Discharge of Huerfano River at Undercliffe, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 1,642A Square Miles

Altitude 4,800A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	Alt.
1928														
No. Items								P	11.2	3.0	1.0	1.2		
Mean									1	1	1	1		
									14.20	2.00	1.00	1.20	721.40x	



# A-25E - Discharge of Huerfano River at Mouth, Colorado

Unit: Acre-Feet														Drainage Area 1,810A Square miles		Altitude 4,450A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN			
1922							121	221	1040	10	370	16					
1923	25	165	787	341*	419*	959	201	95	147	6820	27500	1330	38,789	179.1			
1924	2300	1660	3010*	781*	1900*	1220	3720	11300	2110*	248*	563*	60*	28,872	133.5			
1925	290*	387*	676*	953*	839*	226	103*	228*	58	6250	707	122	11,242	52.3			
No. Items	3	3	3	3	3	3	4	4	4	4	4	4					
Mean	871.7	737.3	1421.0	691.7	1052.7	801.7	1036.2	2961.0	838.8	3537.0	7285.0	302.8	721,677.9				
% Mean																	
Annual	4.03	3.41	6.89	3.19	4.86	3.70	4.78	13.67	3.87	17.12	33.64	1.77	100.00				

# A-25 1/2 - Discharge of Cucharas River at Boyd's Ranch near La Veta, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 75 Square Miles				Altitude 8,050A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN		
1935	0.3	0.2	0.2	0.3	0.3	0.3	0.5	3.6	5.1	2.1	1.3	0.8	15.0	80.7		
1936	0.7	0.5	0.5			0.5	0.7	5.0	2.0	1.0	1.3	0.7				
1937	1.0	0.8	0.7*	0.5*	0.5*	0.7	3.2	8.7	6.6	1.9	0.8	0.5	25.9	139.3		
1938	0.5	0.4	0.6	0.6	0.4*	0.5*	1.6	5.7*	5.2*	2.1	1.1	1.0	19.7	106.0		
No. Items	4	4	4	3	3	4	4	4	4	4	4	4				
Mean	0.62	0.48	0.50	0.47	0.40	0.50	1.50	5.75	4.72	1.78	1.12	0.75	718.59			
% Mean																
Annual	3.34	2.58	2.69	2.53	2.15	2.69	8.07	30.93	25.39	9.58	6.02	4.03	100.00			





# A-26 - Discharge of Cucharas River near La Veta, Colorado

Drainage Area 75 Square Miles													Altitude 8,000 Feet			
Unit: 1,000 Acre-Feet															ANNUAL	ANNUAL
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL			
1923				0.2*	0.2*	0.5	0.8	2.5	3.2	2.1	3.6	1.0				
1924	0.9	0.8*	0.6E	0.6E	0.7E	1.0*	5.3	16.5	6.6	2.0	0.7	0.4	36.1	220.3		
1925	0.5	0.5	0.3E				0.5	0.9	0.7	0.3	0.6	0.4				
1926	0.3						4.5	19.4	7.3	1.8	0.7	0.4				
1927	0.3	0.5				0.3	0.6	1.3	1.6	1.0	0.7	0.2				
1928							0.8	7.7	5.1	1.3	0.7	0.3				
1929	0.2	0.5	0.6	0.3*	0.3E	0.4E	0.7	3.6	2.4	1.0	1.4	0.9	12.3	75.0		
1930	0.4	F				F	1.3	1.7	1.7	2.2	4.7	0.9				
1931	0.3	0.2*					1.6	7.0	3.6	1.4	0.6	0.2				
1932	0.2	0.2E				0.3*	1.2	3.5	2.4	1.2	0.4	0.2				
1933	0.2	0.1	P				0.4	4.3	6.0	1.5	0.7	0.4				
1934	0.3	0.2*	0.1*				1.3	1.8	0.9	0.4	0.2	0.1				
NO. OF DAYS	10	8	4	3	3	5	12	12	12	12	12	12				
MEAN	0.36	0.33	0.40	0.37	0.40	0.50	1.58	5.35	3.48	1.37	1.25	0.42	#16.39			
3 Year																
Annual	2.20	2.22	2.44	2.26	2.44	3.05	9.64	35.69	21.23	6.36	7.63	2.74	100.00			
Oct. 1934 - Station moved to Boyd's Ranch. See A-25. Records not comparable.																

# A-26½ - Discharge of Apishapa River at Aguilar, Colorado

Drainage Area 149 Square miles													Altitude 6,700 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANAL.
1938						0.0	0.1	2.0	0.7	1.4	0.8	0.6		
No. Items						1	1	1	1	1	1	1		
Mean						0.00	0.10	2.00	0.70	1.40	0.80	0.60	#5.60x	



# A-26B - Discharge of Apishapa River at Mouth, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 1,105A Square Miles					Altitude 4,300A Feet				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL		ANNUAL		ANNUAL					
1922							3.8	1.2	2.3	3.7	3.0	0.5										
1923	0.5	1.8	2.0	1.2	0.7	0.7	0.4	0.9	2.2*	2.5*	38.6	3.4		54.9	166.6							
1924	5.4	2.5	1.6	0.4*	1.7	3.7	5.2	2.1*	1.2	0.4	1.2	0.2		25.6	77.7							
1925	0.6	0.4	0.4*	0.2*	0.6*	0.3*	0.1*	1.2	0.1*	12.8	10.4	0.6*		27.7	84.1							
No. Items	3	3	3	3	3	3	4	4	4	4	4	4										
Mean	2.17	1.57	1.33	0.60	1.00	1.57	2.38	1.32	1.52	4.85	13.50	1.18		#32.95								
% Mean																						
Annual	6.59	4.76	4.04	1.82	3.04	4.76	7.22	4.10	4.40	14.72	40.97	3.53		100.00								

# A-26C - Discharge of Timpas Creek at Catlin Syphon, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 466A Square Miles					Altitude 4,160A Feet				
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL	ANNUAL							
1923						1.6	0.7*	5.6*	16.0	9.2	20.7*	3.7										
1924	12.4	8.6	3.7	1.1*	3.2	10.1	7.6	2.5	2.6	0.4	0.3	0.3	53.0	125.3								
1925	1.3	2.0	1.3	0.7	1.5	1.3	0.2	3.5	0.3	3.0	8.2	1.6	24.9	58.9								
1926	3.2	2.8	2.3	2.1	2.4	2.7	1.7	0.9	1.3	0.3	0.7	0.3	21.7	51.3								
1927	0.9	3.3				1.4	0.7	0.7	3.7	10.9	9.2	2.5										
No. Items	4	4	3	3	3	5	5	5	5	5	5	5										
Mean	4.45	4.22	2.43	1.30	2.37	3.42	2.18	2.04	4.88	4.66	7.80	1.68	#42.51									
% Mean																						
Annual	10.52	9.98	5.74	3.07	5.60	8.05	5.15	6.24	11.53	11.42	18.63	3.97	100.00									





# A-26D - Discharge of Timpas Creek at Mouth, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 529A Square Miles

Altitude 4,120A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1922							4.7	3.5	6.0	4.9	5.6	2.2		
1923	3.8	4.8	4.0	3.7	1.8	3.4	2.0	7.9	18.9	12.3	24.7	6.8	94.1	130.0
1924	16.3	12.5	6.3	2.8*	4.9*	12.4	10.1	4.2	6.3	2.2	1.5	2.1	61.7	112.9
1925	4.6	4.6	3.8*	1.7*	2.7	3.4	1.6	5.8	2.0	7.8	12.3	4.2	54.4	75.1
No. Items	3	3	3	3	3	3	4	4	4	4	4	4		
Mean	8.23	7.30	4.70	2.73	3.13	6.40	4.60	5.35	6.30	6.00	11.02	3.82	472.39	
% Mean														
Annual	11.37	10.09	6.49	3.77	4.32	8.84	6.36	7.39	11.43	9.39	15.22	5.28	100.00	

# A-26E - Discharge of Crooked Creek at Mouth, Colorado

Unit: Acre-Feet

Drainage Area 79A Square Miles

Altitude 4,250A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1922							785*	430	881	466	701	165		
1923	97	892	427	922	322	646	347	972	3180	3230	3060	1710	15805	137.6
1924	2230*	1960	756	248*	304	1520	1290	769	1120	278	83	133	10691	93.1
1925	557	994	599*	123*	200	577	97	3080	71	2100	1510	1290	11548	100.6
No. Items	3	3	3	3	3	3	4	4	4	4	4	4		
Mean	961.3	1282.0	594.0	431.0	275.3	914.3	629.8	1312.8	1713.0	1518.5	1446.0	824.5	41142.5	
% Mean														
Annual	8.37	11.16	5.17	3.75	2.40	7.96	5.49	11.43	11.15	13.22	12.15	7.18	100.00	





A-26F - Discharge of Catlin Canal Waste at Timpas Creek, Colorado

Unit: Acre-Feet			Drainage Area				Square Miles				Altitude		Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1927	504	2560				713	321	47	1150	508	2450	1400		
No. Items	1	1				1	1	1	1	1	1	1		
Mean	504.0	2560.0				713.0	321.0	47.0	1150.0	508.0	2450.0	1400.0	#9653.0x	

A-27 - Discharge of Purgatoire River at Trinidad, Colorado

Unit: 1,000 Acre-Feet				Drainage Area 742 Square Miles					Altitude 5,990 Feet					ANNUAL IN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1896								4.1	3.6*	21.0	4.7	4.3			
1897	4.4	2.1	2.5E	2.5E	2.8E	3.1E	9.8	45.0	23.2	15.5	15.7	5.8	133.1	200.5	
1898	3.7	2.5						16.3	22.4	15.9	11.1	10.3			
1899	2.4	2.5					4.9	6.8	4.2	27.1					
1905															
1906	1.1	2.1	8.2												
1907		2.6	1.7	1.1	0.7	P									
1908	P	2.3	2.8			P	2.1	3.5	2.8	16.2	21.4	3.4			
1909	1.6	0.7						P	P	P	P	17.3			
1910	3.1	2.1		0.6	0.6	2.2	9.6	17.8	8.2	4.7	4.1	1.5			
1911	1.2	1.1		0.6	0.3	1.2	0.4	4.3	8.1	35.7	6.6	2.3			
1912	9.4	2.0	0.4	0.6	1.1	3.5	4.4	13.0	23.3	17.7	13.6	3.7	92.7	139.6	
1913	3.0	2.2													
1916							1.6	16.0	16.9	5.7	7.4	0.3			
1917	0.5	P				P	0.6	8.2	11.7	10.6	5.1	3.8			
1918	1.6	1.8				P	3.1	3.6	10.5	P					
1919								P	17.6	34.4	9.2	4.7			



# A-27 - Discharge of Furgatoire River at Trinidad, Colorado (Continued)

Unit: 1,000 Acre-Feet												Drainage Area 742 Square Miles		Altitude 5,990 Feet	
												ANNL. IN			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1920	5.7	3.9	2.5			1.2*	1.8	13.3	19.9	7.5	9.1	3.8			
1921	2.6	2.5	1.8	1.8	1.7	1.3	4.0	7.3	31.1	6.6	15.7	7.0	83.4	125.6	
1922	1.5	1.4	1.6	1.3*	1.4*	1.8	1.1	4.8	10.1	5.8	4.0	2.8	37.6	56.6	
1923	0.8	1.0	0.9E	1.2E	1.3*	1.4	1.3	5.2	20.3	21.0	24.0	17.2	95.3	144.0	
1924	17.3	6.7	3.9	3.1*	4.5	4.7	16.2	22.1	17.5	8.2	3.2	1.4	109.5	160.9	
1925	1.0	1.1	1.9	1.2	2.3	1.5	0.4	1.7	5.2	16.4	9.6	3.1	43.1	64.9	
1926	2.3	2.0	1.4	1.2	1.7	2.2	14.0	21.5	23.4	10.2	6.7	1.4	57.4	134.6	
1927	0.7	1.4	0.6	0.9	0.9	1.2	1.0	5.0	7.6	12.6	15.1	4.2	51.4	77.1	
1928	2.5	1.2	1.4	1.2	0.9	1.3	3.1	23.1	14.3	5.2	7.1	1.3	64.6	97.3	
1929	0.8	1.3	1.5	1.2	1.0	1.7	1.1	8.8	8.2	4.4	16.0	5.2	24.2	72.2	
1930	3.0	2.7	1.8*	1.1	1.2	1.4	3.6	5.7	9.9	16.2	21.3	5.2	73.1	110.1	
1931	2.8	2.5	1.5*	1.2E	1.5	3.3	5.4	19.4	11.6	6.4	3.3	5.2	62.1	93.5	
1932	2.9	1.7	1.2E	1.3*	1.5	1.3	1.6	8.2	18.4	6.3	4.2	1.5	50.1	75.5	
1933	1.5	1.2	0.8*	1.2*	1.3*	0.7	0.6	4.1	13.6	5.1	6.0	3.0	44.9	67.6	
1934	1.7	1.8	1.0	1.0	1.2	1.4	2.3	5.5	3.4	3.1	2.3	1.2	25.9	33.0	
1935	1.0	1.0	1.5	1.0	0.8	0.6	0.8	7.9	18.3	9.2	7.4	3.9	53.4	80.4	
1936	2.6	1.6	1.0	1.0	1.0	0.8	1.7	6.2	4.3	3.0	8.1	3.0	34.3	51.7	
1937	2.9	1.7	1.0*	0.9*	1.5*	1.5	5.6	15.6	17.7	7.8	8.2	3.9	68.3	102.9	
1938	1.6	1.2	1.1*	1.1*	1.1	1.1	2.1	14.9	18.8	9.6	4.3	5.1	62.0	93.4	
No. Items 30 31 24 23 23 23 23 28 30 31 30 29 31															
Mean 2.91 2.00 1.83 1.23 1.40 1.79 3.75 11.33 13.73 12.26 9.61 4.46 765.40															
% Mean															
Annual 4.38 3.01 2.76 1.85 2.11 2.70 5.65 17.06 20.68 18.61 14.47 6.72 100.00															





# A-27A - Discharge of Purgatoire River near Alfalfa, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 1,500 Square Miles

Altitude 5,500 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ADJ. ANNUAL
1905						P	54.2	30.9	14.8	3.1	18.0	3.2		
1906	0.7	0.7	P	1.8	0.9	0.4	1.0	0.8	4.5	26.6	5.5	2.7		
1907	1.4					P	0.5	14.1	18.5	12.2	10.7	0.6		
1924						2.8	11.2	4.5	3.7	3.8	2.9	0.6		
1925	0.6	0.8	0.7E	0.6E	0.5E	0.6*	0.2	0.3	0.0T	10.6*	5.2	2.6	30.9	54.2
1926	1.2	0.9	0.9E	0.7E	1.4E	2.5E	12.1	14.9	8.9	4.5	1.5	0.7	50.2	85.0
1927	0.3	0.9	1.2E	1.5E	1.1E	0.9	0.5	0.1	0.6	15.0	28.3	3.6	54.5	95.5
1928	1.5	1.0E					3.7	6.3	19.0	3.5	5.3	0.7		
No. of days	6	2	3	4	4	5	8	8	8	8	8	8		
Mean	1.37	1.36	0.93	1.15	0.98	1.44	10.42	3.99	8.75	10.91	9.68	1.85	#27.04	
Annual	1.87	1.51	1.63	2.02	1.72	2.52	18.27	15.76	15.24	19.13	16.97	3.26	100.00	
T - Less than 50 Acre-Feet.														



# A-28 - Discharge of Furgatoire River at Nine Mile Dam, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 2,900 Square Miles      Altitude 4,550A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1925	0.5	0.9	1.0E	0.6E	0.8E	1.1*	0.5	0.8	2.6	29.1	17.1	3.9	53.9	53.3
1926	1.0	1.5	1.1E	1.2E	1.7E	5.2	17.7	18.9	11.2	12.2	3.5	0.3	75.5	106.3
1927	0.6	1.2	1.3	1.8	1.3	2.1	1.3	0.3	1.6	32.6	84.8	8.6	137.3	194.5
1928	1.7	1.3	1.4	1.5	1.7	1.1	3.9	40.0	38.0	3.4	3.0	0.4	97.4	137.8
1929	1.6	3.2	2.2E	3.4	4.0	4.0	2.7	2.8	5.0	1.6	70.1	3.8	104.4	147.7
1930	2.5	2.2	2.1	1.5*	2.7	1.5	1.3	1.9	4.0	7.3	15.4	3.8	46.2	65.3
1931	12.0	3.7	4.0E	4.6E	7.4	9.9	9.3	12.2	7.9	1.7	2.2	2.5	77.4	109.5
1932	1.2	1.8*	1.3*	2.6E	3.0*	1.6*	2.2	2.2	4.0	4.0	1.2	0.2	25.3	35.8
1933	0.8	1.2	0.7	2.4	1.8	0.8	0.3	6.9	7.0	7.8	16.3	11.9	57.9	81.9
1934	1.1	1.1	1.3	1.0	1.3	1.0	0.3	1.2	3.5	9.2	4.9	24.7	20.6	71.6
1935	0.2	0.1	0.2	0.6	0.5	0.2	0.1	18.9	5.7	17.4	14.2	11.6	69.7	90.6
1936	1.8	0.9	1.1	1.2	1.7	0.3	0.4	13.0	2.8	13.6	21.5	1.5	59.8	84.6
1937	1.5	0.8	0.6	0.4*	0.8*	0.9	0.5	5.0	21.6	5.7	7.8	17.6	63.2	84.4
1938	1.6	1.2	0.7	1.0	0.9	0.9	0.8	5.0	15.3	14.5	7.8	16.2	65.9	93.2
Monthly Totals	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Grand Total	2.41	1.91	1.36	1.70	2.11	2.19	2.95	9.23	9.00	11.44	11.27	7.00	77.70	77.70
% Error														
Annual	2.34	2.14	1.92	2.41	2.98	3.10	4.17	13.04	12.13	16.19	27.26	10.91	100.00	100.00



# A-29 - Discharge of Purgatoire River at Highland Dam, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 3,320 Square Miles				Altitude 4,000 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN			
1921								5.5	18.5	19.6	20.7	2.6					
1922	1.5	3.6	1.2E														
1932	0.7	1.0*	1.1*	1.0*	1.8*	1.2*	1.9	1.6	4.4	7.1	2.4	0.0T	24.2	41.3			
1933	0.2	0.9	0.4	1.2E	4.0*	0.7	0.2	10.3	7.0	6.3	19.6	15.6	61.3	114.1			
1934	0.5	0.6	0.9	0.5	0.8	0.8	0.2	0.8	1.8	8.7	3.5	12.1	31.2	53.2			
1935	0.1	0.1	0.3	0.3	0.0T	0.0T	0.0	22.9	6.4	13.6	10.6	13.0	67.3	114.8			
1936	0.6	0.3	0.8	0.4	0.5	0.1	0.1	18.5	3.8	15.3	24.4	0.9	66.3	113.1			
1937	1.4	0.7	0.6	0.1*	0.5*	0.7*	0.4	2.0	22.2	8.3	10.2	25.0	72.1	125.0			
1938	1.4*	0.9	0.8*	0.6*	0.7*	1.1	0.8	6.7	14.6	16.1*	6.8*	11.8	62.3	106.3			
No. Days	8	8	8	7	7	7	7	8	8	8	8	8					
Mean	0.80	1.08	0.76	0.59	1.19	0.66	0.51	8.55	9.99	11.24	12.37	10.12	458.01				
% Mean																	
Annual	1.36	1.84	1.30	1.01	2.03	1.13	0.87	14.59	16.87	20.37	21.36	17.27	100.00				
T - Less than 50 Acre-Feet.																	





# A-30 - Discharge of Purgatoire River at Mouth, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 3,395A Square Miles			Altitude 3,850A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1889								1.4*	4.2	16.0	4.2	2.4			
1922							1.4	1.1	2.7	7.5	4.2	0.4			
1923	0.5	1.3	1.7	2.0	1.3	1.0	0.5	3.2*	62.5*	50.8	166.0*	33.9*	324.7	264.3	
1924	49.2	13.7	6.3	5.8*	11.2	5.5	16.4	4.3	1.4	3.0	4.5	0.1	121.4	98.8	
1925	0.3	1.2	1.0*	0.7*	2.0*	1.2	0.2	2.3	3.8	45.7	25.0	3.1	86.5	70.4	
1926	1.7	2.0	1.8	2.1	2.3	2.5	17.3	22.4	17.4	13.8	2.7	0.1	86.1	70.1	
1927	0.5	2.2	1.6	1.1	1.0	0.8	0.3	0.1	0.6	81.8	95.3	15.8	201.1	163.7	
1928	5.6	1.5	0.9	1.2	3.1	0.6	2.6	46.4	42.9	3.5	7.6	0.2	116.1	94.5	
1929	2.4	1.8	2.8	3.7*	2.5E	5.5	2.1	6.2	17.7	11.7	75.6	3.6	135.6	110.4	
1930	0.6	0.8	1.7*	1.4*	2.0	1.0	0.4	5.6	2.2	14.8	39.7	9.9	80.1	65.2	
1931	36.6	1.9*	3.8*	3.6E	7.1	11.1	11.7	12.7*	6.8*	0.6*	1.3*	1.1*	98.3	80.0	
No. Items	9	9	9	9	9	9	10	11	11	11	11	11			
Mean	10.02	2.93	2.40	2.40	3.61	3.24	5.29	9.61	14.75	22.65	38.74	6.42	#124.86		
% Mean															
Annual	8.81	2.38	1.95	1.95	2.94	2.64	4.31	7.22	14.01	18.44	31.53	5.22	100.00		

# A-30A - Discharge of North Fork Purgatoire River at Trinidad Water Works, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 15A Square Miles			Altitude 2,000A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1923										1.9	1.8	1.4			
1924	1.4	1.1	0.8*							1	1	1			
No. Items	1	1	1												
Mean	1.40	1.10	0.80							1.90	1.80	1.40	#5.40x		



# A-30B - Discharge of Brown Creek at Trinidad Water Works, Colorado

Unit: Acre-Feet		Drainage Area 10A Square Miles										Altitude 9,500A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1923										49	192	156		
1924	187	168	124*											
No. Items	1	1	1							1	1	1		
Mean	187.0	168.0	124.0							49.0	192.0	156.0	#876.0x	

# A-30C - Discharge of Cherry Creek at Trinidad Water Works, Colorado

Unit: Acre-Feet		Drainage Area 10A Square Miles										Altitude 9,500A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1923														
1924	53	39	13							36	79	39		
No. Items	1	1	1							1	1	1		
Mean	53.0	39.0	13.0							36.0	79.0	39.0	#239.0x	

# A-30D - Discharge of Whiskey Creek at Trinidad Water Works, Colorado

Unit: Acre-Feet										Drainage Area 10A Square Miles				Altitude 9,500A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1923										1090	1130	619			
1924	555	443	249*												
No. Items	1	1	1							1	1	1			
Mean	555.0	443.0	249.0							1090.0	1130.0	619.0	#4086.0x		





# A-30E - Discharge of Middle Fork Purgatoire River at Vigil, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 29A Square Miles		Altitude 7,450A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL IN
1922													ANNUAL % MEAN
1924	1.9	1.6	1.2*							3.6	4.6	2.0	
No. Items	1	1	1							1	1	1	
Mean	1.90	1.60	1.20							3.60	4.60	2.00	#14.90x

# A-30F - Discharge of South Fork Purgatoire River at Weston, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 170A Square Miles		Altitude 7,000A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL IN
1923													ANNUAL % MEAN
1924	2.1	1.2	0.8*							3.2	4.7	2.8	
No. Items	1	1	1							1	1	1	
Mean	2.10	1.20	0.80							3.20	4.70	2.80	#11.00x



# A-30G - Discharge of Big Sandy Creek at Hugo, Colorado

Unit: Acre-Feet														Drainage Area 555A Square Miles														Altitude 5,025A Feet													
																												ANNL. IN													
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN																											
1910							P	62	0	881	429	31																													
1911	31					P	P	78	31	128	7	121																													
1912	38					P	P	93	129	186																															
No. Items	2						1	3	3	2	2	2																													
Mean	34.5						93.0	89.7	72.3	504.5	218.0	76.0	#1088.0x																												

# A-31 - Discharge of Wild Horse Creek at Mouth, Colorado

Unit: Acre-Feet													Altitude 5,387 Feet	
Drainage Area 225A Square Miles														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1923	381E	446E	1020*	426	733	184*	268	610	3060	1400	2960	1770	13258	227.1
1924	2570	898	610	202E	40E	91	1110	258	2550	406	143	155	9033	154.7
1925	355	750	633	246E	371	232	0	0	76	799	873	1020	5355	91.7
1926	1510	1370	1810	0	127	282	1330	2720	2110	397	29	0	11685	200.1
1927	28	678	304	0	58	200	42	65	73	1300	232	0	2980	51.0
1928	0	186	335	0	147	30	58	2320	2170	20	373	0	5639	96.6
1929	430	1500	898	98	161	430	18	633	226	6	1170	1010	6580	112.7
1930	1270	1100	437	0	0	0	0	1480	125	28	192	881	5513	94.4
1931	3240	1110	68	10	288	2480	1170	664	82	0	0	0	9112	156.1
1932	119	137	14*	0	258*	325*	339	198*	1330*	151*	36*	4*	2911	49.9
1933	81	607	125	79	258	168	0	144	24	38	695	174	2393	41.0
1934	0	42	31	0	0	80	119	74	0	92	25	0	463	7.9
1935	0	362	18	0	69	2	0	5	278	247	0	0	981	16.8
No. Items	13	13	13	13	13	13	13	13	13	13	13	13		
Mean	768.0	706.6	484.8	81.6	193.1	346.5	342.6	705.5	931.1	375.7	517.5	385.7	#5838.7	
% Mean														
Annual	13.15	12.10	8.30	1.40	3.31	5.94	5.87	12.08	15.95	6.43	8.86	6.61	100.00	

Discharges above, entered Arkansas River below station at Holly previous to Aug. 28th, 1935.





# A-32 - Discharge of Holly Drain near Holly, Colorado

Unit: 1,000 Acre-Feet			Drainage Area				Square Miles				Altitude 3,385 Feet			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN % MEAN
1924				0.7E	0.8E	1.2E	1.7E	2.7	3.1	2.5	2.3	2.3		
1925	2.5	2.1	2.0	2.0	1.8	2.0	1.7	1.9	1.9	2.0	2.0	1.6	23.7	111.1
1926	1.7	1.8*	1.8	1.9	1.4	2.4	2.0	2.7	3.8	2.8	1.9	1.8	26.0	121.8
1927	1.8	1.6	1.8	1.6	1.6	1.7	2.0	1.8	1.9	2.4*	1.0	1.2	20.4	95.6
1928	2.1	2.1	1.9	1.9	1.5	1.6	1.6	3.0	2.9	2.3	2.4	1.6	24.9	116.7
1929	2.1	2.4	1.8	1.7	2.1	2.2	2.5	2.2	2.4	1.9	2.7	2.6	26.7	125.1
1930	3.5	3.4	1.9	1.8	2.3	2.5	1.9	2.0	2.1	2.0	3.1	3.7	30.2	141.5
1931	3.1	2.4	1.9	1.8	1.6	2.7	2.0	2.9	2.2	1.7	1.8	1.3	25.4	119.0
1932	1.4	1.4	1.3	1.3	1.2	1.5	2.0	1.5	3.0	1.4	1.4	1.4	16.9	83.6
1933	1.7	1.6	1.7	1.2	1.4	2.3	1.8	2.4	1.7	2.2	6.5	2.0	27.5	127.9
1934	1.8	1.8	1.8	1.8	1.4	2.6	1.5	1.6	1.3	1.3	0.9	1.1	13.0	69.0
1935	1.5	1.0	1.1	0.9	0.9	1.2	1.1	1.7	3.1	1.2	2.5	0.2	17.0	79.7
1936	1.3	1.6	1.0	0.4	0.3	0.5	0.4	1.6	1.2	0.1	2.0	0.6	11.1	52.3
1937	1.8	2.0	0.7	0.3	0.3	0.3	0.4	0.3	1.2	0.1	0.1	1.0	0.5	23.3
1938	0.7*	0.9*	0.6	0.3	1.0	1.1	1.1	2.1	4.0*	2.3*	1.1	3.2*	15.1	66.2
No. Items	14	14	14	15	15	15	15	15	15	15	15	15		
Mean	1.93	1.86	1.52	1.31	1.31	1.73	1.54	2.03	2.32	1.76	2.11	1.81	421.34	
% Mean														
Annual	9.04	8.72	7.12	6.14	6.14	8.11	7.40	9.51	11.20	8.45	9.07	8.43	100.00	





Miscellaneous Discharges Second-Feet

A-6A	Arkansas River near Manzanola. 1898: May 18th, 847 - Sept. 15, 208.	Ref.	W.S.P. 28	USGS
A-7A	Arkansas River at Las Animas. 1898: May 12th, 382; 20th, 119. 1909: Aug. 1st, 117; 3rd, 53 - Nov. 10th, 119.	Ref.	W.S.P. 28 & 267	USGS
A-10H	Cottonwood Creek above Hot Springs. 1910: Sept. 23rd, 37 - Oct. 24th, 33 - Nov. 19th, 32 - Dec. 28th, 21. 1911: Feb. 6th, 13.6 - Mar. 11th, 17.1 - April 7th, 21.4.	Ref.	W.S.P. 287 & 307	USGS
A-11F	Chalk Creek near Buena Vista. 1910: Sept. 24th, 39 - Oct. 24th, 31 - Nov. 19th, 29 - Dec. 29th, 20.	Ref.	W.S.P. 287	USGS
A-13A	Grape Creek at mouth near Canon City (Lower gauge) 1907: July 23rd, 73 - Aug. 14, 86 - Sept. 25th, 28 - Nov. 1st, 2.7 1908: Feb. 14th, 4.2 - Mar. 22nd, 48 - April 14th, 3.3 - May 20th, 1.0 - June 13th, 1.0 - July 15th, 650; 16th, 2 - Nov. 21st, 4.6. 1909: May 6th, 23 - June 28th, 42.5 - July 21st, 31 - Aug. 21st, 21.7 - Sept. 18th, 232 - Oct. 14th, 30.9 - Nov. 4th, 38.9; 24th, 121 - Dec. 22nd, 19.	Ref.	W.S.P. 247 & 267	USGS
A-13B	Oil or Fourmile Creek near Canon City. 1910: April 12th, 21.3 - Sept. 20th, 27.9 - Oct. 31st, 50.7.	Ref.	W.S.P. 287	USGS
A-25D	Huerfano River near Undercliffe. 1908: July 31st, 42.2.	Ref.	W.S.P. 247	USGS
A-26A	Cucharas River at Walsenburg. 1907: March 25th, 4.2 - May 6th, 132; 24th, 271 - June 15th, 62 - July 21st, 4.5 - Aug. 5th, 78. 1908: March 26th, 1.0 - May 29th, 0.8 - June 29th, 0.3 - November 25th, 0.5.	Ref.	W.S.P. 247	USGS



Miscellaneous Discharges Second-Feet (Continued)

A-28A	Purgatoire River at J. J. Ranch near La Junta. 1898: June 13th, 37 - Aug. 5th, 60.	Ref. W.S.P. 28	USGS
A-30H	Big Sandy Creek near Kit Carson. 1910: May 19th, 0 - June 16th, 0 - July 31st, 0 - Aug. 5th, 430; 6th, 454 - Nov. 27th, 0. 1912: June 18th, 400.	Ref. W.S.P. 287 & 327	USGS
A-30I	Big Spring Creek near Arena. 1911: April 20th, 0 - July 8th, 8.3. 1912: June 18th, 0.3.	Ref. W.S.P. 307 & 327	USGS





TABLES OF MONTHLY DISCHARGES

Rio Grande Basin

Rio Grande, Tributaries

and

Closed Basin

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Stations in Downstream Order



# R-1 - Discharge of Rio Grande at Thirty-Mile Bridge, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 163 Square Miles

Altitude 9,390 Feet

APRIL 1911

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL MEAN
1909									P	27.3	15.2	27.3	
1910									F	10.6	6.2	4.0	
1911	3.8	2.5					P	39.8	78.6	44.1	11.4	7.6	
1912	F						P	47.0	79.7	34.6	15.0	5.8	
1913	4.8	0.5			0.2*		4.0	31.5	26.1	32.7	16.9	7.7	
1914	14.6	P					P	25.8	69.7	47.7	21.2	6.0	
1915	5.8	4.1		0.9	0.8	0.9	0.9	13.0	61.3	50.5	24.3	3.1	
1916	13.2	2.7	1.2	3.2E	2.8E	5.4*	7.9	29.8	24.2	40.8	24.8	5.6	161.6 98.7
1917	36.1	16.7*		1.0*	0.3	0.3	0.4	9.4	109.0	56.0	21.2	9.6	
1918	9.1	5.1*	0.4E	0.5	0.4	0.5	5.7	31.7	39.9	14.3	11.1	3.0	121.7 74.3
1919	4.0	P		0.2	0.3	0.3	2.9	38.4	34.0	31.5	30.8	7.7	
1920	5.7	0.6	0.2	0.2*	0.2*	0.2*	0.6	30.5	79.1	51.8	19.8	7.3	196.2 119.8
1921	6.8	1.6	0.5*	0.5*	0.4*	0.5*	7.9	22.4	102.0	46.9	25.3	7.1	222.6 136.0
1922	14.8	3.0*	0.5E					39.0	60.7	46.4	24.4	7.7	
1923	6.0	1.0*	0.6E	0.6E	0.6E	0.6E	6.5*	31.6	35.6	43.5	26.2	3.7	156.5 95.6
1925								F	45.9	30.5	19.0	13.1	
1926								P	44.6	39.3	29.9	7.3	
1927	0.3	1.3	0.6E	0.6E	0.6E	0.6E	5.6	21.6	67.2	20.5	24.1	11.5	189.1 112.3
1928	21.2	1.7E	1.7E	1.6E	1.6E	1.7E	18.0	30.3	34.1	34.1	14.6	6.3	174.4 116.3
1929	3.6	2.6	2.1E	1.9E	1.9E	2.1E	6.9	16.0	22.6	44.2	24.7	17.1	176.4 107.7
1930	20.8	3.7	0.5*	0.5*	0.4*	0.5*	9.3	33.6	18.4	17.6	17.6	4.3	162.9 87.3
1931	6.2	0.2E	0.2E	0.2E	0.2E	0.2E	4.4	17.3	30.9	5.8	4.0	4.4	77.4 17.5
1932	5.1	0.9*	0.2E	0.2E	0.2E	0.2E	11.8*	13.6	49.2	41.6	12.9	7.4	113.3 73.7
1933	8.0	0.2E	0.2E	0.2E	0.2E	0.2E	7.1	24.7	44.5	54.9	9.8	4.0	123.0 74.8
1934	4.3	1.5*	0.2E	0.2E	0.2E	1.1*	18.6	31.9	6.3	3.3	1.0	7.3	91.5 49.5
1935	2.8	1.3	0.1E	0.1E	0.1E	1.4	8.5	13.9	26.4	15.1	25.0	3.5	125.1 76.4
1936	3.1	0.4*	0.4E	0.4E	0.4E	1.2*	16.4	47.2	37.4	14.6	8.0	6.7	139.0 80.9
1937	0.1	0.1E	0.1E	0.1E	0.1E	0.2E	7.1	21.0	31.2	25.5	25.0	3.4	121.7 74.3
1938	3.5	2.0	0.0T	0.0T	0.0T	0.0T	0.5	4.6	62.0	47.3	23.3	7.0	176.2 107.6
No. Items	24	22	16	20	20	21	21	35	27	23	29	23	
Mean	6.24	2.44	0.54	0.57	0.55	0.07	7.19	26.60	51.56	35.41	15.50	7.50	115.11
%Mn. Anl	5.22	1.49	0.32	0.41	0.55	0.55	4.39	16.27	34.71	21.53	11.91	4.76	100.00



# R-2 - Discharge of Rio Grande at Wason near Creede, Colorado

Unit: 1,000 Acre-Feet			Drainage Area 705 Square Miles										Altitude 8,590 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AVNL. IN % MEAN
1907							P	102.0	226.0	213.0	62.7	37.4		
1908	20.7	14.0	P			11.0	28.7	73.2	137.0	55.6	48.9	18.6		
1909	13.9	9.7					30.1	134.0	219.0	70.1	39.7	76.2		
1910	26.7	16.6		11.1E	9.3E	29.7	53.6	143.0	107.0	28.8	19.7	14.4		
1911	14.2	11.8	9.4*	9.2	8.0	9.5	29.0	110.0	182.0	114.0	47.6	28.2		
1912	79.9	24.6	14.3	11.1	9.4	10.1	20.2	151.0	195.0	84.5	42.1	18.5		
1913	17.8	9.1		P	P	P	19.5	76.9	72.5	59.3	34.7	19.8	572.9	119.6
1914							18.0	105.0	182.0	96.0	51.9	37.2	610.7	137.9
1915	40.0	14.1	6.3E	5.7E	5.7E	7.0E	16.9	60.8	143.0	91.6	53.1	32.7	477.5	99.7
1916	26.6	11.5*	6.5E	9.2E	9.3E	17.5*	28.1	98.4	110.0	86.7	69.5	23.1	496.4	103.6
1917	74.4	35.5				P	17.0	62.7	237.0	122.0	52.4	25.9		
1918	18.9	11.2	5.7*	5.8E	5.0E	8.4*	15.8	70.7	83.7	41.0	41.1	23.4	335.7	70.1
1919	13.9	9.0		5.8E	6.1E	6.7*	30.3*	129.0	105.0	83.0	62.7	23.7		
1920	15.0	8.5*	7.3E			7.1	13.7	147.0	221.0	112.0	52.5	21.5		
1921	18.9	13.1	9.8*	8.8*	7.9*	12.4	29.1	116.0	273.0	121.0	72.6	33.3	715.9	147.5
1922	32.2	15.3*	9.2*				P	149.0	167.0	80.6	60.0	25.3		
1923	14.8	8.3*	6.8*	7.1*	5.5E	9.2E	22.6*	105.0	120.0	82.4	64.6	31.4	475.2	91.6
1924	22.7	13.3	15.9	11.1*	7.4*	11.1E	36.3	132.0	127.0	91.8	50.3	14.6	321.3	110.1





# R-2 - Discharge of Rio Grande at Wason near Creede, Colorado (Continued)

Unit: 1,000 Acre-Feet														Drainage Area 705 Square Miles														Altitude 8,590 Feet																			
ANNUAL														ANNUAL														ANNUAL																			
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN			
1925	15.6	6.8*	6.0*	5.0*	5.0*	7.6	31.8	84.8	104.0	71.9	39.7	30.7	408.9	85.4	1925	15.6	6.8*	6.0*	5.0*	5.0*	7.6	31.8	84.8	104.0	71.9	39.7	30.7	408.9	85.4	1925	15.6	6.8*	6.0*	5.0*	5.0*	7.6	31.8	84.8	104.0	71.9	39.7	30.7	408.9	85.4			
1926	21.0	12.5*	14.4*	10.8*	6.9*	8.3*	18.5*	77.5	126.0	75.6	55.2	21.2*	447.9	93.5	1926	21.0	12.5*	14.4*	10.8*	6.9*	8.3*	18.5*	77.5	126.0	75.6	55.2	21.2*	447.9	93.5	1926	21.0	12.5*	14.4*	10.8*	6.9*	8.3*	18.5*	77.5	126.0	75.6	55.2	21.2*	447.9	93.5			
1927	10.9	9.5*	7.7*	6.0*	5.3*	6.2*	30.0*	94.1	141.0	106.0	55.2	73.2	545.1	113.8	1927	10.9	9.5*	7.7*	6.0*	5.3*	6.2*	30.0*	94.1	141.0	106.0	55.2	73.2	545.1	113.8	1927	10.9	9.5*	7.7*	6.0*	5.3*	6.2*	30.0*	94.1	141.0	106.0	55.2	73.2	545.1	113.8			
1928	49.6	12.6	9.5*	8.9*	7.6*	9.2*	31.2*	87.9	104.0	87.9	36.8	17.5	462.7	96.6	1928	49.6	12.6	9.5*	8.9*	7.6*	9.2*	31.2*	87.9	104.0	87.9	36.8	17.5	462.7	96.6	1928	49.6	12.6	9.5*	8.9*	7.6*	9.2*	31.2*	87.9	104.0	87.9	36.8	17.5	462.7	96.6			
1929	14.6	10.7*	6.8*	6.3*	5.3*	8.1*	26.3	82.4	130.0	93.5	65.8	50.0	499.8	104.4	1929	14.6	10.7*	6.8*	6.3*	5.3*	8.1*	26.3	82.4	130.0	93.5	65.8	50.0	499.8	104.4	1929	14.6	10.7*	6.8*	6.3*	5.3*	8.1*	26.3	82.4	130.0	93.5	65.8	50.0	499.8	104.4			
1930	36.1	12.6	6.8*	5.5*	5.6*	8.0*	33.6	73.2	102.0	59.8	41.6	16.8	405.6	84.3	1930	36.1	12.6	6.8*	5.5*	5.6*	8.0*	33.6	73.2	102.0	59.8	41.6	16.8	405.6	84.3	1930	36.1	12.6	6.8*	5.5*	5.6*	8.0*	33.6	73.2	102.0	59.8	41.6	16.8	405.6	84.3			
1931	18.6	8.4*	5.0*	3.1*	4.0*	5.8*	16.8*	47.3	75.0	29.0	15.6	16.3	245.7	51.3	1931	18.6	8.4*	5.0*	3.1*	4.0*	5.8*	16.8*	47.3	75.0	29.0	15.6	16.3	245.7	51.3	1931	18.6	8.4*	5.0*	3.1*	4.0*	5.8*	16.8*	47.3	75.0	29.0	15.6	16.3	245.7	51.3			
1932	19.2	8.8*	5.8*	5.1*	5.2*	6.8*	31.4	104.0	126.0	87.3	81.8	25.0	506.4	105.7	1932	19.2	8.8*	5.8*	5.1*	5.2*	6.8*	31.4	104.0	126.0	87.3	81.8	25.0	506.4	105.7	1932	19.2	8.8*	5.8*	5.1*	5.2*	6.8*	31.4	104.0	126.0	87.3	81.8	25.0	506.4	105.7			
1933	17.2	5.6*	4.9*	4.9*	4.2*	6.0*	16.9	56.6	99.4	56.8	28.7	18.1	319.3	66.7	1933	17.2	5.6*	4.9*	4.9*	4.2*	6.0*	16.9	56.6	99.4	56.8	28.7	18.1	319.3	66.7	1933	17.2	5.6*	4.9*	4.9*	4.2*	6.0*	16.9	56.6	99.4	56.8	28.7	18.1	319.3	66.7			
1934	14.9	7.9	6.8*	5.5*	4.2*	8.0*	45.0	71.9	22.1	12.7	13.5	13.6	226.1	47.2	1934	14.9	7.9	6.8*	5.5*	4.2*	8.0*	45.0	71.9	22.1	12.7	13.5	13.6	226.1	47.2	1934	14.9	7.9	6.8*	5.5*	4.2*	8.0*	45.0	71.9	22.1	12.7	13.5	13.6	226.1	47.2			
1935	9.3	6.1	4.7	4.2	4.2	7.0	21.4	41.5	123.8	76.2	57.4	18.6	374.4	75.2	1935	9.3	6.1	4.7	4.2	4.2	7.0	21.4	41.5	123.8	76.2	57.4	18.6	374.4	75.2	1935	9.3	6.1	4.7	4.2	4.2	7.0	21.4	41.5	123.8	76.2	57.4	18.6	374.4	75.2			
1936	12.6	6.0	5.0	4.6*	4.3*	6.8	42.0	94.0	59.7	32.4	26.6	18.9	312.9	65.3	1936	12.6	6.0	5.0	4.6*	4.3*	6.8	42.0	94.0	59.7	32.4	26.6	18.9	312.9	65.3	1936	12.6	6.0	5.0	4.6*	4.3*	6.8	42.0	94.0	59.7	32.4	26.6	18.9	312.9	65.3			
1937	7.8	5.6	4.9	4.4*	4.3*	5.6	28.2	85.0	69.4	63.2	43.0	11.1	332.5	69.4	1937	7.8	5.6	4.9	4.4*	4.3*	5.6	28.2	85.0	69.4	63.2	43.0	11.1	332.5	69.4	1937	7.8	5.6	4.9	4.4*	4.3*	5.6	28.2	85.0	69.4	63.2	43.0	11.1	332.5	69.4			
1938	10.4	7.0	4.6*	4.2*	4.4	5.5	27.7	64.7	175.9	87.8	65.5	27.3	485.0	131.3	1938	10.4	7.0	4.6*	4.2*	4.4	5.5	27.7	64.7	175.9	87.8	65.5	27.3	485.0	131.3	1938	10.4	7.0	4.6*	4.2*	4.4	5.5	27.7	64.7	175.9	87.8	65.5	27.3	485.0	131.3			
No. Items	30	30	24	24	24	26	30	32	32	32	32	32			No. Items	30	30	24	24	24	26	30	32	32	32	32			No. Items	30	30	24	24	24	26	30	32	32	32	32	32						
Mean	23.71	11.70	7.67	6.81	5.97	9.18	27.06	94.71	136.58	80.07	48.51	21.16	478.30		Mean	23.71	11.70	7.67	6.81	5.97	9.18	27.06	94.71	136.58	80.07	48.51	21.16	478.30		Mean	23.71	11.70	7.67	6.81	5.97	9.18	27.06	94.71	136.58	80.07	48.51	21.16	478.30				
% Mean															% Mean															% Mean																	
Annual	4.95	2.44	1.60	1.42	1.25	1.92	5.65	19.77	28.52	14.74	10.13	5.63	100.00		Annual	4.95	2.44	1.60	1.42	1.25	1.92	5.65	19.77	28.52	14.74	10.13	5.63	100.00		Annual	4.95	2.44	1.60	1.42	1.25	1.92	5.65	19.77	28.52	14.74	10.13	5.63	100.00				



# R-3 -- Discharge of Rio Grande near Del Norte, Colorado

Unit: 1,000 Acre-Feet Drainage Area 1,320 Square Miles Altitude 7,982 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY.	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANAL. IN N. MEX.
1888	17.1*	19.0	15.3*	13.5E	11.1E	27.1*	34.5	205.0	230.0	93.2	37.6	22.5	807.2	115.0
1891	26.9	20.2*	10.4E	16.9E	15.9E	26.7E	83.9	202.0	247.0	104.0	40.8	51.4	834.1	118.9
1892	51.9	22.3	19.1*	16.9E	14.4E	19.4*	62.3	160.0	130.0	45.5	27.3	15.6	554.7	89.3
1893	15.9	14.5*	10.8E	9.8E	9.7E	15.4E	31.7	120.0	104.0	27.3	19.9	16.1	521.9	53.8
1894	16.2*	14.2*	10.5*	10.3E	9.7E	15.4*	54.2	147.0	63.7	22.4	23.6	21.1	412.9	58.8
1895	24.1	16.3	13.5*	12.9E	10.6E	26.7*	119.0	144.0	137.0	64.5	45.2	23.7	637.8	90.9
1896	25.8	20.4	15.4E	16.9E	15.5E	30.7E	91.0	151.0	51.5	24.3	13.5	29.7	491.5	70.1
1897	27.9	18.1	15.8E	13.8E	11.1E	27.1*	63.5*	217.0*	202.0*	65.1*	29.2*	37.5*	729.1	103.9
1898	90.5*	39.6*	24.0E	20.0E	14.7E	27.7E	114.0*	187.0*	261.0*	101.0*	31.3*	19.0*	911.8	129.9
1899	16.0*	14.1*	11.1E	11.1E	10.0E	15.4*	34.2*	51.7*	84.9*	43.3*	31.7*	22.2*	561.0	52.4
1900	29.2*	23.5*	12.6E	9.2E	10.6E	15.4E	24.0*	175.0*	160.0*	31.0*	14.6*	15.2*	525.5	74.6
1901	21.5*	14.9*	12.3E	12.3E	9.7E	13.8*	42.2*	183.0*	116.0*	34.5*	23.5*	21.5*	421.7	70.1
1902	16.1*	16.8*	10.8E	9.8E	8.3E	14.1*	38.0*	71.9*	36.0*	9.4*	11.1*	12.3*	255.4	56.4
1903	14.0*	12.9*	12.3E				44.5*	174.0*	309.0*	102.0*	32.3*	30.6*		
1904	21.5*						55.2	71.2	55.6	20.7	42.4	41.2		
1905	89.1						45.2	210.0	362.0	67.1	35.5	22.4		
1906	26.4	17.6*	12.3E	11.1E	10.0E	18.8*	64.9	236.0	227.0	114.0	47.7	42.5	875.4	123.2
1907	54.8	32.5	18.4E					161.0	361.0	279.0	92.8	48.4		
1908	30.4E	20.8E					P	104.0	174.0	65.8	57.2	20.3		
1909	16.7	12.2					F	196.0	270.0	23.5	52.1	37.7		
1910	40.6	24.9	24.4	19.7E	16.3E	39.7*	83.3	210.0	144.0	38.0	30.3	19.8	521.0	90.5
1911	22.3	18.1	13.4*	15.2	13.3	20.7	57.0	204.0	287.0	172.0	59.5	39.7	922.2	131.6
1912	151.0	32.3	25.0	20.9	15.7	17.1	34.4	229.0	260.0	108.0	49.9	26.6	963.3	159.2
1913	23.7	15.6	10.8E				P	144.3	125.6	65.7	42.2	29.2		
1914	34.6	22.8	14.6			P	18.7	172.0	210.0	120.0	62.7	42.1		
1915	54.2	16.5	10.6	11.1	12.4	15.3	57.2	183.0	306.0	116.0	62.1	39.3	657.3	97.9
1916	33.0	17.4	12.5	17.0	16.6	34.1	56.5	181.0	176.0	124.0	59.0	38.1	925.2	117.6
1917	100.0	47.8				F	37.9	114.0	352.0	184.0	63.2	33.8		
1918	25.2	17.6	10.8	11.7	10.8	16.4	28.7	116.0	143.0	64.0	48.6	34.2	527.0	75.1
1919	22.4	15.6	12.0	12.6*	11.7*	14.0*	61.9*	223.0	162.0	116.0	77.5	31.7	764.4	106.2





## R-3 - Discharge of Rio Grande near Del Norte, Colorado (Continued)

Unit: 1,000 Acre-Feet

Drainage Area 1,320 Square Miles

Altitude 7,982 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL
1920	24.9	18.3	15.1*	14.6*	15.6*	16.6*	30.2	20.0	35.0	153.0	63.2	29.2	995.7	141.9
1921	26.6	21.4	15.6*	15.5*	13.7*	24.9	43.0	183.0	371.0	156.0	93.0	50.9	1,020.6	145.4
1922	42.6	23.3	15.6*	15.9*	15.2*	18.1*	39.8	274.0	305.0	119.0	81.8	33.4	983.7	140.2
1923	20.0	15.0	13.9*	12.8*	10.6E	16.0*	38.6	186.0	214.0	115.0	83.0	53.9	777.8	110.8
1924	50.6	33.6	22.2*	17.8*	15.5*	17.2E	68.4*	227.0	202.0	103.0	52.2	15.0	835.5	113.8
1925	19.1	11.4	12.4*	11.9*	11.9*	22.3*	61.3	141.0	165.0	97.2	53.6	45.0	652.9	93.0
1926	42.7	24.1	25.8E	17.8E	13.5E	14.8E	34.3*	138.0	198.0	103.0	71.9	27.0	710.7	101.3
1927	20.2	16.3*	14.1*	11.7*	11.7*	13.5*	54.0	174.0	217.0	161.0	80.6	110.0	898.1	129.0
1928	75.0	25.1	18.8*	18.1*	17.3*	22.4*	49.0	163.0	165.0	103.0	43.8	25.0	740.5	105.5
1929	22.1	17.9*	15.1*	13.8*	12.2*	16.0*	50.6	186.0	220.0	117.0	104.0	82.7	857.4	122.2
1930	57.7	23.4	14.1E	12.3E	12.2E	15.4E	56.6	108.0	140.0	75.6	38.6	23.6	587.5	85.1
1931	24.5	12.7*	12.1*	8.3*	9.3*	12.3*	28.2*	73.8	99.4	35.4	15.7	25.1	357.4	51.0
1932	30.4	12.2*	10.2*	11.4*	11.3*	16.5*	66.6*	214.0	236.0	146.0	106.0	30.4	891.2	127.0
1933	26.3	10.9*	9.5*	10.2*	8.6*	14.4*	23.6	81.2	169.0	79.3	38.4	27.1	434.5	71.2
1934	24.2	14.7*	12.5*	13.2*	11.1*	12.1	67.2	103.0	20.3	14.7	15.9	17.3	550.2	48.2
1935	14.4	11.5	8.3	8.5	9.1	15.3	37.1	81.9	263.2	129.8	72.2	27.9	679.0	96.6
1936	19.5	12.7	8.3	9.3	10.0	13.9	67.3	141.2	89.2	33.6	37.6	27.1	475.7	67.8
1937	15.1	12.4	9.7	9.8*	9.4E	11.7E	54.6	173.0	129.4	79.8	50.2	17.7	572.8	81.6
1938	18.7	13.1	10.4	10.2E	11.7E	15.4E	65.8	141.3	270.0	118.1	70.8	43.5	792.0	112.9
Normal	20.0	14.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Annual	4.98	2.75	2.06	1.91	1.74	2.75	7.48	23.17	27.86	13.05	7.41	4.84	100.00	



# R-4 - Discharge of Rio Grande near Monte Vista, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 1,740 Square Miles													Altitude 7,155 Feet												
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	IN	ANNUAL	IN	ANNUAL	IN																				
1926								48.8	77.4	18.4	1.6	1.6																										
1927	2.6	14.7					18.2	48.3	107.0	89.8	13.6	98.2																										
1928	57.3	18.3					15.5	58.3	48.1	12.4	2.9	3.2																										
1929	2.3	9.9*					19.5	56.0	74.4	20.1	60.1	64.3																										
1930	35.0	22.4					13.6	29.6	36.4	14.4	13.0	1.5																										
1931	3.8	11.6				P	2.0	19.5	27.4	7.7	2.9	4.2																										
1932	3.8	5.5*				11.7*	16.8	66.4	100.0	39.4	14.6	3.4																										
1933	4.4	12.0	P			P	2.8	22.0	44.0	13.9	4.4	4.4																										
1934	3.2	10.1			7.8*	3.4	18.4	33.8	7.2	4.4	3.6	3.2																										
1935	0.6	2.4	10.9	11.4	5.8	0.5	4.6	27.0	104.2	31.6	8.5	4.7			212.4		93.2																					
1936	4.4	9.7	9.2	9.3	11.1	5.0	17.3	42.3	21.0	6.5	5.4	3.9			145.1		63.6																					
1937	3.4	11.7	11.6	7.8*	9.3*	11.2	14.7	43.8	35.9	12.4	4.5	2.1			165.4		73.9																					
1938	0.7	6.6	11.6*	9.0*	8.6	9.6	28.5	51.2	142.6	28.8	4.2	18.4			320.5		140.6																					
No. Items	12	12	4	4	5	6	12	13	13	13	13	13																										
Mean	10.14	11.4	10.82	9.37	8.52	6.90	14.49	42.08	63.51	23.75	10.77	16.34			4227.98																							
% Mean																																						
Annual	4.45	4.22	4.75	4.11	3.74	3.03	6.25	14.45	27.86	10.42	4.72	7.12			101.00																							





# R-5 - Discharge of Rio Grande at Alamosa, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 1,840 Square Miles

Altitude 7,536 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1912								P	186.0	40.0	9.0	4.8		ANNL.IN
1913	10.5	15.4	P				P	11.3	25.0	1.4	0.4	1.7		
1914	23.6	19.2					P	52.3	115.0	39.3	28.2	30.5		
1915	31.9	15.3	10.3E	10.6E	10.9E	16.5*	15.7	36.0	67.2	20.0	12.7	12.7	259.8	103.6
1916	12.4	15.0	14.1	17.5E	18.8*	30.8	15.5	50.8	40.6	10.7	59.8	11.5	297.5	118.6
1917	74.4	54.0				P	18.1	41.0	217.0	92.8	10.1	5.8		
1918	7.8	16.8	14.0*	11.4E	12.2E	18.5*	5.6	3.8	6.8	4.9	0.8	15.8	118.4	47.2
1919	4.3	12.7	14.3	11.7E	10.6E	19.5*	53.5	123.0	30.3	16.8	11.0	1.9	309.6	123.4
1920	5.9	16.8	17.2*	15.8E	16.9*	19.9	20.2	113.0	248.0	58.6	7.5	5.9	545.7	217.6
1921	14.4	23.0*	17.2E	15.7*	14.7*	29.0	12.7	43.9	333.0	59.9	39.7	29.2	632.4	252.2
1922	18.7	20.8	18.9*	20.6	17.7	20.5	13.1	93.6	130.0	21.0	1.8	1.1	383.8	153.0
1923	1.3	12.7	15.6	14.7	17.1	19.6	14.8	16.0	49.8	20.6	29.6	37.9	249.7	99.6
1924	57.2	36.7	24.5*	16.0*	16.1*	17.9	63.1	119.0	37.5	6.0	1.4	1.1	396.5	158.1
1925	2.0	10.8	13.0	9.2*	11.2*	25.3*	10.3	6.1	8.2	4.0	5.8	14.4	120.3	48.0
1926	18.8	22.3	20.9*	16.6*	15.6E	21.0	15.5	18.1	41.1	5.2	0.9*	0.8*	196.8	78.5
1927	1.6	11.5	15.4*	10.8*	15.6*	17.4	13.6	9.3	51.4	27.9	5.0	36.9	326.4	130.1
1928	60.9	27.7	20.6*	17.8*	17.3*	23.1	12.7	28.9	23.3	3.0	2.2	1.3	238.8	75.2
1929	1.4	10.1*	11.7*	11.6*	11.1*	16.4	14.8	18.2	32.8	3.9	50.1	59.4	241.5	87.3
1930	40.6	29.2	19.8	12.9*	17.8E	14.6	7.6	5.2	3.3	7.6	3.4	1.0	163.0	65.0
1931	1.4	7.7*	8.3*	7.7*	12.5*	16.9*	2.4	1.7	3.3	2.8	1.4	1.2	67.3	26.8
1932	0.9	3.6*	11.1*	10.5*	12.5*	18.3*	3.3	24.8	63.7	24.1	2.5	1.9	177.2	70.7
1933	1.9	11.5	15.1*	12.3E	9.7*	10.1*	0.7	2.0	7.0	2.7	2.3	1.3	76.6	30.5
1934	1.0	4.2	13.4*	10.7*	13.1*	4.5*	1.2E	2.2*	3.0	1.8	1.7	1.0	57.8	23.0
1935	0.6	0.9	8.2	7.3	6.9	0.9	0.9	3.2	50.0	6.5	1.6	1.5	88.5	35.3
1936	3.1	5.8	11.1	9.4	11.7	4.9	2.9	5.0	2.9	2.6	3.3	1.5	64.2	25.6
1937	1.7	10.9	12.2	9.0*	11.4	14.0	6.0	10.6	11.9	3.4	1.2	1.0	93.3	37.2
1938	0.9	1.9	13.0	9.7	10.9	10.8	17.2	23.6	90.6	13.0	1.6	4.2	177.4	76.7
No. Items	26	26	23	23	23	23	24	26	27	27	27	27		
Mean	15.35	16.02	14.78	12.59	13.58	16.97	14.22	33.41	69.69	20.76	10.93	12.49	#250.79	
% Mean														

Annual 6.12 6.39 5.89 5.02 5.41 6.77 5.67 13.32 27.79 8.28 4.36 4.98 100.00  
 Record for 1894-1895 Gage Heights, See WSF #3358 Pg. 76. Record for 1903-Miscellaneous Measurements Sept. 15th, 56 s.f.;  
 Oct. 11th, 15 s.f.; Nov. 8th, 83 s.f.





# R-6 - Discharge of Rio Grande above Trinchera Creek, Colorado

Unit: 1,000 Acre-Feet			Drainage Area				Square Miles				Altitude		Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1936								P	3.7	0.3	4.8	4.3		
1937	6.9	15.5	14.9	10.6	13.3	20.4	21.6	31.6	20.9	5.4	1.2	1.9	164.2	86.3
1938	2.6	4.4	15.2	11.4	15.8	16.4	27.3	43.5	94.6*	22.4*	2.9	1.2	257.7	135.5
No. Items	2	2	2	2	2	2	2	2	3	3	3	3		
Mean	4.80	9.95	15.05	11.00	14.55	18.40	24.45	37.55	39.73	9.37	2.97	2.43	#190.25	
% Mean														
Annual	2.52	5.23	7.91	5.73	7.65	9.67	12.85	19.74	20.88	4.93	1.56	1.28	100.00	

# R-7 - Discharge of Rio Grande near Lobatos, Colorado

Unit: 1,000 Acre-Feet			Drainage Area 7,700N Square Miles				Altitude 7,427 Feet				ANNUAL		ANNUAL % MEAN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1939														
1900	7.2	15.4*	15.7E	12.3E	13.9E	16.4*	20.2	106.0	105.0	1.2	3.7	1.2	320.0	30.0
1901	1.7	3.3*	16.9E	15.4E	13.9E	22.3*	16.8	124.0	56.0	3.0	3.0	2.4	291.3	52.7
1902	3.0	2.1*	9.2E	11.1E	8.9E	13.8*	18.3	28.5	6.7	8.7	0.6	1.0	105.9	19.7
1903	1.3	1.1	1.6	1.5	1.4	2.1	18.7	124.0	379.0	72.4	2.9	5.4	611.4	110.7
1904	3.9	8.3*	7.4E	7.4E	6.3E	6.8*	9.1	1.3	1.2	1.1	5.6	11.7	72.1	15.2
1905	97.6	17.9*	10.4E	21.5E	18.0E	53.2*	46.0	350.0	430.0	16.7	10.0	3.8	1,065.3	196.2
1906	6.3	13.6	15.4E	16.6E	15.0E	20.9*	45.3	205.0	260.0	90.4	30.9	25.2	744.6	144.8
1907	56.8	P	30.7E	30.7E	29.2E	47.9	117.0	201.0	411.0	334.0	107.0	73.2		
1908	35.4	28.1	22.0*			41.7	37.4	47.0	68.4	19.4	38.4	18.2		
1909	17.8	14.9	14.8E	18.4E	19.4*	30.1	63.1	213.0	260.0	37.2	26.7	140.0	665.5	156.8
1910	53.4	33.9	27.1	24.0E	19.7E	76.2*	121.0	207.0	60.1	2.0	4.0	2.6	631.6	114.3
1911	7.4	13.6	17.8	22.8E	21.1E	23.1	27.4	129.0	243.0	222.0	35.6	41.6	804.4	145.6
1912	193.0	47.6*	30.7E	30.6E	28.0E	36.7	50.0	262.0	306.0	49.5	17.3	11.7	1,063.1	192.4
1913	17.4	21.6	18.4E	P	P	P	57.1	50.5	52.7	4.9	2.3	4.1		
1914	23.6	24.0				31.6	38.5	102.0	156.0	48.4	45.7	48.6		



# R-7 - Discharge of Rio Grande near Lobatos, Colorado (Continued)

Unit: 1,000 Acre-Feet      Drainage Area 7,700 N Square Miles      Altitude 7,427 Feet

YEAR	COT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1915	45.2	25.5	16.9E	18.0E	16.0E	24.5*	49.0	102.0	125.0	39.7	26.1	16.7	504.6	91.3
1916	15.6	19.5*	18.9E	22.6E	26.2*	47.8	51.5	164.0	114.0	37.7	83.6	25.5	626.9	113.5
1917	94.1	65.5				P	55.8	116.0	296.0	157.0	17.6	9.5		
1918	12.1	22.4	22.0*	17.3E	20.5E	33.0*	15.4	28.1	52.2	21.1	3.2	22.5	269.8	48.3
1919	10.5	19.7	19.7	16.8E	15.4E	34.6*	120.0	257.0	62.7	55.7	20.2	7.1	600.5	106.7
1920	12.2	25.8*	23.6E	23.1E	27.4*	31.1	33.0	255.0	425.0	119.0	22.1	17.0	1,008.3	152.5
1921	23.2	37.4	33.3*	30.7*	26.7*	51.6	24.3	92.6	369.0	57.4	63.3	41.3	871.0	157.6
1922	27.6	31.4	26.8*	29.6*	28.7*	33.0*	25.5	197.0	250.0	41.0	5.8	4.9	709.3	128.4
1923	6.0	20.2	24.1	23.1	23.6	27.7	23.8	125.0	160.0	28.6	43.0	61.5	564.4	102.5
1924	80.6	52.5	40.3	24.0E	38.5*	43.5	175.0	329.0	51.5	10.3	4.6	4.2	857.7	159.7
1925	7.6	17.2	20.9	16.0	26.0	39.6	32.1	38.0	17.7	8.5	18.4	23.4	265.4	48.0
1926	33.0	35.1	35.2	26.6	30.0	38.8	43.4	113.0	187.0	14.7	3.6	3.7	424.1	87.6
1927	5.0	16.6	23.2	19.7	27.0	26.7	26.5	96.5	113.0	123.0	16.8	109.0	613.0	110.9
1928	64.8	43.8	27.0	24.2	24.5	39.2	27.7	94.1	61.0	4.6	3.4	4.1	436.4	70.0
1929	4.6	17.2	24.1	16.8	15.7	29.0	27.3	120.0	92.2	19.3	76.2	10.8	311.0	92.7
1930	55.2	42.9	31.7	16.6	24.3	32.6	44.4	56.0	53.0	11.9	16.3	5.5	355.0	64.2
1931	9.0	15.6*	21.2*	12.0*	17.1*	32.2	14.0	10.9	3.0	1.2	2.0	3.2	111.4	25.6
1932	5.9	6.9*	17.0*	16.2*	21.7*	32.3*	23.4	165.3	175.0	86.7	11.0	9.5	575.3	103.8
1933	11.0	20.8	21.0*	16.5*	13.9*	23.7*	11.1	33.0	73.6	9.9	2.5	5.8	252.1	45.3
1934	7.5	11.7	20.3*	20.0*	22.2*	16.5	8.8	6.7	1.8	0.7	1.5	1.9	119.5	21.6
1935	3.0	4.7	11.4	12.6	13.0	6.2	1.9	45.5	164.3	48.7	9.3	9.2	331.0	60.1
1936	11.3	16.5	14.1	15.4	19.5	16.0	60.4	79.7	11.0	1.1	9.0	7.7	266.8	48.3
1937	13.9	24.7	23.3*	15.6*	16.7*	32.1	88.7	181.0	78.3	19.2	2.2	3.1	498.8	90.3
1938	5.1	6.8	17.0*	13.2*	16.6*	21.7	70.8	122.7	167.7	30.2	5.0	13.0	491.6	90.1
No. Items	39	38	37	35	35	37	39	39	32	40	40	40	#	32.53
Mean	28.50	22.46	21.14	18.88	20.18	31.06	44.66	127.19	150.44	45.71	26.12	23.19		
% Mean														
Annual	5.16	4.06	3.63	3.42	3.65	5.62	8.08	23.02	27.23	8.27	3.64	4.02	100.00	

N: Includes 2,940 square miles in Closed Basin, noncontributing.







# R-8 - Discharge of Clear Creek below Continental Reservoir, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 49 Square Miles      Altitude 10,500 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1922								7.9	4.6	6.5	3.6	2.2		
1930	1.8	1.2	0.8	0.6	0.6*	0.6*	3.3	5.9	4.2	3.4	2.5	1.3	26.2	123.5
1931	1.1	0.7*	0.6E	0.5E	0.4E	0.6E	1.2*	3.2	2.4*	1.2	0.8	0.7	13.4	63.2
1932	0.8	0.6*	0.6E	0.5E	0.5E	0.5E	1.2E	6.5*	5.1	3.8	3.8	1.4	25.5	119.3
1933	0.7	0.5E	0.5E	0.5E	0.4E	0.5E	0.9	6.3	5.1	2.6	1.4	1.1	20.5	96.7
1934	0.5E	0.5E	0.5E	0.5E	0.4E	0.5E	3.8*	3.2	1.1	1.0	0.6	0.5	13.1	61.8
1935	0.5E	0.5E	0.5E	0.5E	0.4E	0.5E	1.0	4.6	3.2	1.9	2.2	1.1	16.9	79.7
1936	0.6*	0.6E	0.6E	0.6E	0.5E	0.6E	4.8*	4.6	3.0	2.0	1.6	1.2	20.7	97.6
1937	0.7*	0.6E	0.6E	0.6E	0.6E	0.6E	3.3	5.7	2.1	1.8	1.1	0.9		
1938	0.8	0.8E	0.8E	0.8E	0.7E	0.8E	1.4	5.8	6.4	5.3	1.9	1.2	24.8	124.4
No. Items	9	9	9	8	8	8	9	10	10	10	10	10		
Mean	0.83	0.67	0.61	0.55	0.42	0.55	2.32	5.37	3.72	2.95	1.95	1.16	21.21	
% Mean														
Annual	3.91	3.16	2.88	2.64	2.31	2.73	10.24	25.32	17.54	13.91	9.17	5.17	100.00	

In Above Engineers Record as North Clear Creek below Continental Reservoir.

# R-8A - Discharge of Clear Creek near Creede, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 139 Square Miles      Altitude 9,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1910														
1911														
											P	2.6		
No. Items												1		
Mean												2.60	42.60x	



# R-8B - Discharge of Goose Creek near Wagon Wheel Gap, Colorado

Unit: 1,000 Acre-Feet Drainage Area 49 Square Miles Altitude 8,800A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1925	0.7	0.6	0.5	0.6	0.5	0.6	1.3	6.6	9.6	5.7	3.7	3.7	34.6	77.0
1926	4.0	3.1	2.6	1.8	1.4	1.6	2.7	10.0	14.0	P				
No. Items	2	2	2	2	2	2	2	2	2	1	1	1		
Mean	2.35	1.85	1.55	1.20	0.95	1.10	2.25	8.50	11.80	5.70	3.70	3.70	44.45	
% Mean														
Annual	5.29	4.16	3.49	2.70	2.14	2.48	5.06	18.57	26.55	12.32	8.32	8.32	100.00	

# R-9 - Discharge of So. Fk. of Rio Grande at South Fork, Colorado

Unit: 1,000 Acre-Feet Drainage Area 216 Square Miles Altitude 8,222 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1910														
1911	3.6	2.9	2.5E	2.2E	1.8E	4.0*	15.5	50.3	71.9	41.4	10.4	2.4	215.1	118.2
1912	35.0*	8.4	6.5*	3.6E	2.9E	4.2E	3.8*	57.0	64.7	19.3	5.6	8.6	219.2	120.4
1913	4.6	5.2	2.3*	2.0E	2.1E	2.6E	17.2*	36.9	33.0	7.1	3.6	4.6	121.7	66.9
1914	5.5	4.4	P			P	11.0	37.5	49.3	17.4	7.9	8.9		
1915	12.4	4.5	2.1E	2.0E	3.5E	5.0*	11.3	27.9	56.1	18.3	6.8	3.9	154.1	84.7
1916	3.5	2.6*	2.5E	3.1E	3.1E	7.9E	18.9*	55.1	73.2	27.1	12.7	8.6	216.3	118.9
1917	18.6	P				P	12.6*	31.4	100.0	46.5	9.7	5.1		
1918	3.2	2.8*	2.0E	1.9E	1.8E	4.3*	8.9	29.4	42.7	12.8	6.2	5.5	121.5	66.8
1919	2.8	3.5				P	18.8*	55.4	55.4	17.1	7.8	3.8		
1920	3.5	4.1*	3.7E				8.3	73.2	101.0	35.3	8.5	3.6		
1921	3.4	3.5	3.1*	2.6*	2.6*	7.3*	9.2	37.8	74.0	20.2	12.1	7.1	180.9	99.4
1922	3.0	2.2					12.5	73.2	83.9	18.3	7.3	2.5		

1936								P	27.4	5.4	7.4	5.3		
1937	3.7	3.6	2.7	2.7E	2.8E	3.2E	16.0	63.6	50.3	11.1	5.8	2.7	164.7	91.6
1938	3.2	2.5	2.2*	2.2E	2.2E	2.7E	21.6	47.7	73.1	18.3	5.3	8.5	189.5	104.1
No. Items	14	13	10	9	9	9	14	14	15	15	15	15		
Mean	7.57	3.85	3.01	2.48	2.51	4.58	13.55	46.05	82.33	21.64	7.47	3.27	4101.99	
%M.A.	4.16	2.12	1.65	1.36	1.38	2.52	7.50	26.37	34.35	11.53	4.21	2.90	100.00	





# R-10 - Discharge of Pinos Creek near Del Norte, Colorado

Unit. 1,000 Acre-Feet.													Drainage Area 53 square miles		Altitude 8,400A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AINL.IN % AREA		
1919							3.2E	8.4*	5.6	4.1	1.7	1.0				
1920	0.7	0.7				P	1.3	14.0	20.2	5.5	1.6	0.7				
1921	0.7					P	1.1	6.5	8.1	3.4	2.7	1.8				
1922	0.8						1.5*	13.5	18.7	2.6	1.1	0.6				
1923	0.7						1.5*	8.4	3.2	2.9	2.3	2.0				
1924	1.6	0.9E					4.9	12.2	7.7	1.8	0.6	0.5				
1936							P	5.9	2.6	1.0	1.9	1.0				
1937	0.7	0.3					P	6.5	5.2	1.5	0.6	0.5				
1938	0.5						P	7.2	7.8	2.1	0.2	1.0				
No. Years	7	3					6	9	9	9	9	9				
Mean	0.91	0.50					2.25	9.46	9.34	2.77	1.51	1.01	27.97x			





# R-11 - Discharge of Carnero Creek near La Garita, Colorado

Drainage Area 117 Square Miles													Altitude 8,000 Feet		
Unit: Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
	1919							3.0*	7.9	2.7	1.9	1.0	0.6		
	1920	0.5					1.0*	0.8	4.1	2.3	0.8	0.8	0.4		
	1921	0.4						1.2	3.2	4.5	1.9	1.8	1.1		
	1922	0.6						P	2.8	1.4	0.5	2.1	0.7		
	1923	0.6						1.5	2.8	1.1	0.8	2.3	2.0		
	1924	1.8						7.9*	10.6	3.5	1.2	0.5	0.2		
	1925	0.3	0.3				1.0	0.9	1.0	0.5	0.9	1.3	0.8		
	1926	0.6	0.5*	0.3*	0.2*		0.6*	2.0	3.0	1.9	1.2	0.7	0.2	11.4	102.2
	1927	0.4	0.2*				0.7*	0.7	0.7	0.4	0.5	0.6	0.6		
	1928	0.7						2.2	7.4	2.9	0.6	0.6	0.5		
	1929	0.4*						P	1.2	0.7	0.6	5.1	1.7*		
	1930	0.9						0.8	0.6	0.4	0.8	2.8	0.9		
	1931	0.5*						0.9*	0.9	0.5	0.4	0.1	0.1		
	1932	0.1						0.6*	1.6	0.8	0.7	0.4	0.1		
	1933	0.1						0.4	0.6	0.6	0.5	0.7	0.5		
	1934	0.4						0.6	0.6	0.2	0.1	0.2	0.2		
	1935	0.2					P	0.7	2.2	2.2	1.3	0.7	0.3		
	1936	0.3*						P	1.0	0.6	0.3	1.8	0.7		
	1937	0.5	0.3					1.9	1.8	1.1	0.5	0.2	0.3		
	1938	0.2						2.6	4.5	2.4	0.7	0.4	1.0		
	No items	19	4	1	1	1	4	17	20	20	20	20	20		
	Mean	0.50	0.32	0.30	0.20	0.20	0.82	1.69	2.92	1.56	0.81	1.20	0.64	11.16	
	% Mean														
	Annual	4.48	2.87	2.69	1.79	1.79	7.35	15.14	26.16	13.98	7.26	10.75	5.74	100.00	



# R-12- Discharge of La Garita Creek near La Garita, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 61 Square Miles      Altitude 8,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1919							2.3*	9.3	2.7	3.0	2.2	0.6		
1920	0.4					0.4	0.5	5.0	3.0	1.1	1.3	0.6		
1921	0.3					P	0.6	3.2	7.5	4.0	2.8	1.7		
1922	0.5						0.9	4.3	1.9	0.7	1.3	0.6		
1923								3.4	2.3	2.0	2.9	3.1		
1924	2.6						7.5	13.0	4.0	1.1	0.5	0.3		
1925	0.4	0.4					1.0	1.5	0.7	1.8	2.8	1.2		
1926	0.6	0.5*	0.4*	0.3*	0.3*	0.4*	2.3	7.2	3.0	1.2	0.7	0.2	17.3	137.0
1927	0.2	0.4*					0.9	1.2	0.7	0.7	0.7	0.7*		
1928							0.9*	2.6	1.5	0.9	0.9	0.6		
1929	0.5	0.5*					P	2.4	1.4	0.8	3.6	1.5		
1930							1.0	0.9	0.7	1.0	2.5	0.8		
1931	0.6						0.7*	1.0	0.7	0.4	0.3	0.2		
1932	0.3						0.7*	2.2	1.2	0.9	0.6*	0.3*		
1933	0.7*						0.4*	0.9	1.1	1.0	0.7	0.3		
1934	0.3						0.7	0.6	0.3	0.3	0.3	0.2		
1935	0.2						0.7	1.9	2.9	1.2	0.6	0.5		
1936	0.4	0.2					P	1.1	0.7	0.5	1.4	0.9		
1937	0.6	0.3					1.5	2.3	1.1	0.6	0.4	0.3		
1938	0.3						2.2	4.7	3.2	1.0	0.4	0.7		
Mo Items	16	6	1	1	1	2	17	20	20	20	20	20		
Mean	0.57	0.36	0.40	0.30	0.30	0.40	1.40	3.44	2.07	1.21	1.34	0.76	#12.63	
Annual	4.51	3.01	3.17	2.37	2.37	3.17	11.56	27.24	16.39	9.93	15.61	6.02	#10.00	





# R- 12A - Discharge of San Francisco Creek near Del Norte, Colorado

Unit: Acre-Feet		Drainage Area 13.1 Square Miles										Altitude 3,800 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1936							P	662	320	175	502	217		
1937	137	108					P	1,080	376	182	94	105		
1938	63						P	1,290	875	339	176	352		
No Items	2	1						3	3	3	3	3		
Mean	100.0	108.0						1,177.3	523.3	232.0	257.3	224.7	2522.6x	

# R- 12B (1) Discharge of San Luis Creek, near Villa Grove, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 218 Square Miles										Altitude 7,962 Feet					
												ANNUAL IN													
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL	ANNUAL	ANNUAL	ANNUAL								
1911								5.6	4.5	1.6	0.9	0.8													
1912	1.3	0.7																							
1922							0.9	1.2	0.6	0.3	0.4	0.3													
1923	0.4						0.2*	0.7	2.0	0.6	2.0	2.0													
1924	2.0	1.4	0.7*				9.3	12.1	5.0	0.7	0.6	0.5													
1925	0.5	0.6					0.9	0.9	0.5	0.3	0.3	0.5													
1926	0.5	0.3					1.6	3.6	3.1	0.3	0.7	0.4													
No Items	5	4	1				5	6	6	6	7	7													
Mean	0.94	0.75	0.70				2.55	4.18	2.62	0.72	0.93	0.77	14.12x												
2 Miles S.E. of Villa Grove. Sec. 15, T. 46N., R. 10E.																									

Unit: 1,000 Acre-Feet													Drainage Area 220A Square Miles													Altitude 7,955A Feet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				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Station S.E. of Villa Grove, Sec. 5, T. 45N., R. 10E. Records not comparable with Station R-12B(1). Court decrees for  
 portions of 33 second-feet between the two points. -179-



# R - 13 Discharge of Kerber Creek near Villa Grove, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 38 Square Miles

Altitude 9,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL MEAN
1912	P	0.9	0.4	0.2	0.3	0.7	1.2	5.2	4.0				ANNUAL MEAN

1923									1.9	1.1*	2.0	1.0	
1924	0.7	0.5*					2.6	6.8	5.0	1.0	0.4	0.3	
1925							1.1	2.0	0.9	0.5	0.4	0.3	
1926	0.3E						1.5*	4.3*	3.4*	1.0*	0.3*	0.2*	

1936								2.4	1.2	0.5	1.7	0.6	
1937	0.4	0.3					P	2.5	1.5	0.4	0.2	0.2	
1938	0.2	P					2.3	3.9	2.2	0.5	0.2	0.7	
No Items	4	3	1	1	1	1	5	7	3	7	7	7	
Mean	0.40	0.57	0.40	0.20	0.30	0.70	1.74	3.61	2.49	0.71	0.74	0.47	12.59
% Mean													
Annual	3.18	4.53	3.18	1.59	2.38	5.56	13.82	30.74	19.77	5.64	5.89	3.72	100.00

# R - 13A Discharge of Kerber Creek, below Villa Grove, Colorado

Unit: Acre-Feet

Drainage Area 112 Square Miles

Altitude 1,570 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL MEAN
1922							155	534	155	8	2	0	ANNUAL MEAN
No Items							1	1	1	1	1	1	
Mean							355.0	534.0	155.0	8.0	2.0	0.0	100.00





# R - 14 Discharge of Saguache Creek near Saguache, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 595 Square Miles      Altitude 7,800 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% DEVI.
1910											P	2.6		
1911	2.6	P				3.7	4.1	8.8	12.9	13.8	8.0	3.8		
1912	6.6	2.8					4.5	16.6	14.0	8.2	7.2	4.3*		
1914									16.5	10.9*	6.8	3.6		
1915	3.1	1.9*	1.0E	1.4E	1.4E	2.6E	7.1*	13.6	14.0	5.7	3.0	3.0	58.4	101.2
1916	2.5	2.2*	2.0E	1.6E	2.1E	3.1*	3.4	11.3	11.5	6.6	9.9	4.2	60.4	104.7
1917	4.0	2.8				2.2E	4.6*	11.5	20.5	11.1	4.5	2.8		
1918	2.6	2.2	1.6E	1.6E	1.7E	2.4*	2.8	8.4	9.2	6.0	4.5	4.7	47.7	82.7
1919	2.9	2.7					6.4*	22.2	15.6	11.3	6.2	3.3		
1920	2.3	3.2*				3.6*	3.4	17.3	19.8	7.1	4.0	3.1		
1921	3.2	3.0*				P	3.1	13.5	26.4	10.1	7.4	4.6		
1922	3.4	2.9					3.4	11.2	13.2	7.0	5.0	2.8		
1923	2.3	2.1*	1.5E	1.0*	1.1E	2.2E	3.5*	9.4	12.5	8.7	10.0	6.8	61.1	105.9
1924	2.8	3.1					15.3*	26.9	16.7	6.8	3.3	2.3		
1925	2.6	1.9*					5.6	8.1	6.6	6.5	6.1	4.5		
1926	4.1	2.3*	1.8*	1.5*	1.2*	1.8*	7.7*	14.8	13.6	6.2	3.7	2.3	61.0	105.7
1927	3.7						5.2*	8.7	8.6	7.0	7.6	7.1		
1928	6.0	3.3*					6.7*	21.4	17.5	6.1	4.2	3.1		
1929	2.7	2.7					4.3	10.5	11.3	6.6	12.2	11.5		
1930	5.2	3.6*					P	5.3	4.9	4.4	7.9	3.3		
1931	2.9						3.3*	6.5	4.5	2.4	1.9	1.5		
1932	1.9	1.5*					3.0*	16.3	10.8	7.3	5.2	2.9		
1933	2.5	2.5*					2.2	5.0	8.3	4.4	4.1	2.1		
1934	2.0	P					3.1	3.8	1.7	1.4	2.2	1.9		





# R - 14 Discharge of Saguache Creek near Saguache, Colorado. (Continued.)

Unit: 1,000 Acre-Feet

Drainage Area 595 Square Miles

Altitude 7,500 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AVG. IN 3 Years
1935	1.4	1.4				1.7	2.3	4.9	13.2	7.3	4.5	2.8		
1936	2.5				P	1.8	3.8	6.1	4.2	3.0	4.4	2.6		
1937	2.6	2.1					P	9.3	6.6	4.0	2.7	2.3		
1938	2.4	2.1	P				6.2	14.1	16.1	6.2	2.8	3.6		
No Items	26	21	5	5	5	10	24	26	27	27		28		
Mean	3.22	2.42	1.58	1.42	1.50	2.51	4.77	11.74	12.25	6.89	5.60	3.70	521.69	
% Lean														
Annual	5.58	4.32	2.74	2.46	2.60	4.25	8.30	20.35	21.21	11.94	9.71	6.41	100.00	

# R - 15 Discharge of North Crestone Creek, near Crestone, Colorado.

Unit: 1,000 Acre-Feet

Drainage Area 10.7 Square Miles

Altitude

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AVG. IN 3 Years
1936								1.4	0.9	1.5	4.3	1.0		
1937	0.6	0.5					0.9	2.9	1.9	0.6	0.4	0.5		
1938	0.3						0.9	2.2	3.4	1.0	0.3	1.4		
No Items	2	1					2	3	3	3		3		
Mean	0.45	0.50					0.55	2.17	2.07	1.02	1.57	0.97	55.14	

1915 Record, miscellaneous Discharges.



R - 15a Discharge of South Crestone Creek near Crestone, Colorado

Unit: Acre-Feet		Drainage Area 5A Square Miles										Altitude 6,300A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1936								188	105	286	610	276	
1937	82	64											
No Items	1	1						1	1	1	1	1	
Mean	82.0	64.0						150.0	105.0	286.0	610.0	276.0	5,013.0x
1915 Record, Miscellaneous Discharges.													

R - 15B Discharge of Willow Creek, near Crestone, Colorado

Unit: Acre-Feet		Drainage Area 4A Square Miles										Altitude 6,440A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1936								471	513	694	1,970	596	
1937	253	129											
No Items	1	1						1	1	1	1	1	
Mean	253.0	129.0						471.0	513.0	694.0	1,970.0	596.0	25,025.0x
1915 Record, Miscellaneous Discharges.													

R - 15C Discharge of Spanish Creek, near Crestone, Colorado

Unit: Acre-Feet		Drainage Area 6A Square Miles										Altitude 7,900A Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1936								321	266	466	1,030	296	
1937	140	81											
No Items	1	1						1	1	1	1	1	
Mean	140.0	81.0						321.0	266.0	466.0	1,030.0	296.0	24,600.0x
1915 Record, Miscellaneous Discharges.													





R - 15D Discharge of Cottonwood Creek near Crestone, Colorado

Unit: Acre-Feet		Drainage Area 7A Square Miles										Altitude 7,750 Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AINL.IN
1936								603	465	537	1,320	607		
1937	264	199												
No Items	1	1						1	1	1	1	1		
Mean	264.0	199.0						603.0	465.0	537.0	1,320.0	607.0	43,995.0x	
1915 record, Miscellaneous Discharges.														

R - 15E Discharge of Deadman Creek, near Crestone, Colorado

Unit: Acre-Feet		Drainage Area 10A Square Miles										Altitude 5,000A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	AINL.IN
1936								839	390	743	1,530	772		
1937	359	246												
No Items	1	1						1	1	1	1	1		
Mean	359.0	246.0						839.0	390.0	743.0	1,530.0	772.0	44,849.0x	
1915 Record, Miscellaneous Discharges.														

R - 15F Discharge of Arena Creek, near Crestone, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 20 1/2 Square Miles										Altitude 5,000 Feet		
		AINL.IN												
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1936														
1937	0.9	0.7						2.7	1.2	1.2	3.6	1.5		
No Items	1	1						1	1	1	1	1		
Mean	0.90	0.70						2.70	1.20	1.20	3.60	1.50	411.60x	



Drainage Area 63A Square Miles										Altitude 9,100A Feet					
Unit. 1,000 Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	A.M.I. IN % MEAN
	1932	P	1.5	1.5*					27.6	43.4	17.6	4.8	1.7		
	1933	0.9	0.8	0.7	0.7	0.6	0.7	1.4	9.9	26.4	P				
	No Items	1	2	2	1	1	1	1	2	2	1	1	1		
	Mean	0.90	1.15	1.10	0.70	0.60	0.70	1.40	13.75	34.90	17.60	4.80	1.70	134.30	
	% Mean														
	Annual	1.07	1.36	1.31	0.83	0.71	0.53	1.66	22.24	41.40	20.18	5.49	2.02	100.00	

Unit. 1,000 acre-feet						Drainage area 91 Square Miles							Altitude 3,700+ Feet		
	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	TOTAL IN CUMULATIVE
1912	18.0	3.4	2.2	0.9E	1.0E	1.5	3.3	33.3							
Total Items	1	1	1	1	1	1	1	1	1						
Mean	18.00	3.40	2.20	0.90	1.00	1.50	3.30	33.30							154.60

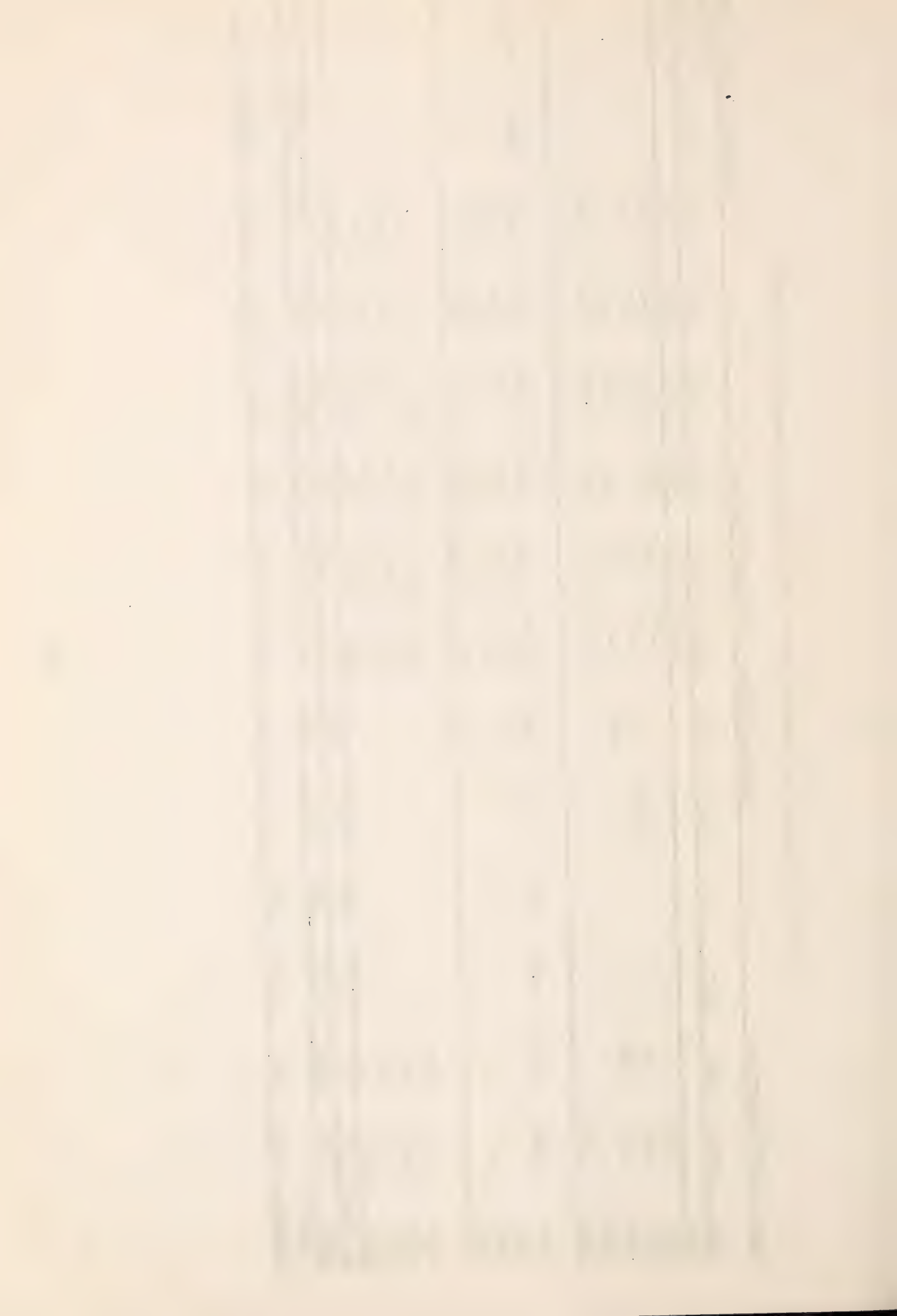


R - 16 Discharge of Alamosa River above Terrace Reservoir, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 107 Square Miles      Altitude 6,600 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
1915							6.1*	17.6	34.9	14.5	4.9	2.5		
1916	1.9*						8.6*	32.5*	35.5	13.5	9.5	3.0		
1917	5.8	P			1.1E	1.2E	5.3*	18.8	P	26.5	7.3	2.9		
1918	1.3*	0.8E				2.1	3.4	18.8	24.3	10.2	4.0			
1919							9.3	34.1	22.9	12.4	5.6	2.0*		
1920	1.0*													
1924	3.5E	4.5E	4.2E	3.6E	2.7E	6.0E	7.8*	35.9	24.8	6.4	2.7	1.4	103.5	101.1
1925						P	9.9	27.9	19.9	9.4	5.4	3.5		
1926	3.1	P					4.3	23.1	27.3	6.8	4.2	1.4		
1927							7.0	32.3	31.0	14.5	5.7	5.3		
1935	1.0	0.7*					3.9	12.5	56.0	20.3	7.0	2.4		
1936	1.6	1.3					13.3	30.7	12.4	3.5	6.6	3.4		
1937	2.3	2.0					9.2	39.8	25.4	7.3	2.9	2.0		
1938	1.9	P					13.2	30.9	36.9	10.2	4.0	4.5		
No Items	10	5	1	1	2	3	13	13	12	13	13	12		
Mean	2.34	1.86	4.20	3.60	1.90	3.10	7.79	27.32	29.44	12.31	5.57	3.18	102.41	
% Mean														
Annual	2.26	1.82	4.10	3.52	1.85	3.03	7.61	26.69	29.75	12.02	5.24	3.10	100.00	





Unit: 1,000 Acre-Feet

Drainage Area 116 Square Feet

Altitude 5,400 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% ANNUAL
1909							P	29.2	37.6	11.2				
1910	3.9	2.9	6.0	P		P	11.3	29.0	13.9	5.5	6.6	1.7		
1911	P						7.2	28.6	40.7	21.4	7.4	7.2		
1912	15.4				3.0	3.4	4.1	33.7	33.4	21.8	10.7	3.2		
1913	3.1	2.6												
1915							2.3*	15.0	39.5	17.7	5.7	3.0		
1916	2.3*					2.2	4.6	30.6	45.0	19.8	6.7	4.8		
1917	3.2	2.2	10.2		1.0E	0.5*	1.2	6.6	58.1	36.0	10.6	2.8		
1918	1.4	0.8*	P			2.1E	3.4*	18.8	24.9	9.5	P			
1919							P	26.3	26.3	12.4	5.7	2.2*		
1920	1.3*							27.1	52.8	29.1	12.0	4.7		
1921	2.5													
1922							5.2*	25.5	37.3	13.0	7.2	3.3		
1923	1.5E	1.5E	1.5E	1.5E	1.4E	1.5E	3.1	29.0	29.6	17.5	6.8	6.1	101.0	104.8
1924	3.8*	3.7*	3.9*	3.9*	3.6*	3.8*	3.2	35.7	32.1	10.4	4.8	1.4	115.1	119.5
1925	1.0	1.2	1.2E	1.3E	1.2E	1.4*	9.5	23.0	10.4	10.3	5.7	3.5	78.5	81.5
1926	2.9	2.1*					3.2*	17.6	25.8	11.3	7.9*	2.2		
1927	1.0	0.6E	0.6E	0.6E	0.6E	1.9	6.8	31.2	20.4	14.8	9.5	4.5	92.5	96.0
1928	5.7	3.4E				P	4.5	17.8	20.4	9.2	7.0	1.7		
1929	1.1	1.0	0.4E	0.4E	0.4E	0.7	7.5	24.5	30.2	15.9	10.6	7.1	98.9	102.7
1930	4.8	3.3E	3.0E	2.8E	1.8E	1.7E	8.2	17.5	19.0	5.6	9.1	2.0	79.6	82.6
1931	2.1	1.2E	1.2E	1.2E	1.1E	1.2E	2.8	11.7	13.1	3.9	2.9	4.9	47.3	49.1
1932	5.0	0.9*	0.9E	0.9E	0.9E	0.9*	11.1	25.6	33.0	21.8	14.3	4.5	119.1	124.4
1933	2.1	1.8*	1.1E	0.9E	0.8E	0.7*	1.9	14.6	29.0	11.3	6.5	1.9	73.5	76.3
1934	1.5*	0.7E	0.6E	0.6E	0.7E	1.6	12.5	11.4	2.6	1.5	1.9	1.3	57.0	61.4
1935	1.1	0.6	0.4	0.5	0.5	1.1	4.5	12.3	38.3	20.3	12.0	3.6	95.7	98.3
1936	2.3	2.2	2.2	2.1	1.9	1.9	12.4	23.7	13.6	6.8	7.0	4.6	80.7	83.9
1937	1.9	1.6	1.8*	1.8E	1.7E	1.8E	9.4	30.7	24.3	12.1	9.5	4.6	103.4	104.2
1938	1.6	1.1E	0.6E	0.2E	0.2E	0.6E	5.3	22.6	38.1	15.0	9.3	4.7	99.5	103.5
No Items	24	20	16	14	16	16	24	27	27	27	25	25		
mean	3.18	1.79	2.22	1.33	1.30	1.62	6.26	23.11	29.7E	14.26	7.85	3.69	89.63	
% Error														
Annual	3.30	1.86	2.31	1.38	1.35	1.68	6.50	23.99	30.85	14.80	8.15	3.83	100.00	



# R - 18 Discharge of Alamosa River near Capulin, Colorado

Unit: 1,000 Acre-Feet									
Drainage Area 136 Square Miles									
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
1919									
1920	0.3	0.2						P	3.1
1921	1	1							1
1922	0.32	0.29							3.12
1923									0.40
1924									0.70
1925									0.20
1926									0.7
1927									0.2
1928									0.7
1929									0.2
1930									0.2
1931									0.2
1932									0.2
1933									0.2
1934									0.2
1935									0.2
1936									0.2
1937									0.2
1938									0.2
1939									0.2
1940									0.2
1941									0.2
1942									0.2
1943									0.2
1944									0.2
1945									0.2
1946									0.2
1947									0.2
1948									0.2
1949									0.2
1950									0.2
1951									0.2
1952									0.2
1953									0.2
1954									0.2
1955									0.2
1956									0.2
1957									0.2
1958									0.2
1959									0.2
1960									0.2
1961									0.2
1962									0.2
1963									0.2
1964									0.2
1965									0.2
1966									0.2
1967									0.2
1968									0.2
1969									0.2
1970									0.2
1971									0.2
1972									0.2
1973									0.2
1974									0.2
1975									0.2
1976									0.2
1977									0.2
1978									0.2
1979									0.2
1980									0.2
1981									0.2
1982									0.2
1983									0.2
1984									0.2
1985									0.2
1986									0.2
1987									0.2
1988									0.2
1989									0.2
1990									0.2
1991									0.2
1992									0.2
1993									0.2
1994									0.2
1995									0.2
1996									0.2
1997									0.2
1998									0.2
1999									0.2
2000									0.2
2001									0.2
2002									0.2
2003									0.2
2004									0.2
2005									0.2
2006									0.2
2007									0.2
2008									0.2
2009									0.2
2010									0.2
2011									0.2
2012									0.2
2013									0.2
2014									0.2
2015									0.2
2016									0.2
2017									0.2
2018									0.2
2019									0.2
2020									0.2
2021									0.2
2022									0.2
2023									0.2
2024									0.2
2025									0.2
2026									0.2
2027									0.2
2028									0.2
2029									0.2
2030									0.2
2031									0.2
2032									0.2
2033									0.2
2034									0.2
2035									0.2
2036									0.2
2037									0.2
2038									0.2
2039									0.2
2040									0.2
2041									0.2
2042									0.2
2043									0.2
2044									0.2
2045									0.2
2046									0.2
2047									0.2
2048									0.2
2049									0.2
2050									0.2
2051									0.2
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2062									0.2
2063									0.2
2064									0.2
2065									0.2
2066									0.2
2067									0.2
2068									0.2
2069									0.2
2070									0.2
2071									0.2
2072									0.2
2073									0.2
2074									0.2
2075									0.2
2076									0.2
2077									0.2
2078									0.2
2079									0.2
2080									0.2
2081									0.2
2082									0.2
2083									0.2
2084									0.2
2085									0.2
2086									0.2
2087									0.2
2088									0.2
2089									0.2
2090									0.2
2091									0.2
2092									0.2
2093									0.2
2094									0.2
2095									0.2
2096									0.2
2097									0.2
2098									0.2
2099									0.2
2100									0.2
2101									0.2
2102									0.2
2103									0.2
2104									0.2
2105									0.2
2106									0.2
2107									0.2
2108									0.2
2109									0.2
2110									0.2
2111									0.2
2112									0.2
2113									0.2
2114									0.2
2115									0.2
2116									0.2
2117									0.2
2118									0.2
2119									0.2
2120									0.2
2121									0.2
2122									0.2
2123									0.2
2124									0.2
2125									0.2
2126									0.2
2127									0.2
2128									0.2
2129									0.2
2130									0.2
2131									0.2
2132									0.2
2133									0.2
2134									0.2
2135									0.2
2136									0.2









# R - 20 Discharge of La Jara Creek near Capulin, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 73 Square Miles										Altitude 6,800 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1916							3.7	7.0	3.5	3.9	1.3	0.6	ANNUAL
1917	0.7						3.8	5.8	3.1	1.8	1.1	1.1	
1918	1.1	0.8											
1919							6.1	5.7	6.0	3.6	0.3	0.7	
1920	0.7	0.8					1.4*	10.6	3.4	3.7	3.2	1.0	
1921	1.0	0.9*					P	4.9	1.3	1.1	0.8	0.6	
1922	0.8						P	5.8	2.4	5.8	1.4	0.6	
1923							P	8.8	1.8*	5.1	2.4	1.7	
1924	1.4	1.2						4.6*	2.6	4.8	1.7	1.0	
1925	0.9	0.7				1.0*	3.9	3.4	1.0	0.9	2.0	0.4	
1926	0.4	0.2*						4.7	4.2	2.2	0.6	0.4	
1927	0.4						3.3	4.7	1.8	1.4	0.9	0.9	
1928	0.8					P	2.4	3.3	1.1	2.9	1.0	0.7	
1929	0.5E	0.4E					4.1*	4.8	1.0	2.0	1.0	1.1	
1930	0.6									1.8	1.1	0.7	
1932													
1933	0.5						3.8	7.1	0.9	0.3	1.2	0.9	
1934	0.3*	0.4*				P	0.9	2.6	0.7	1.0	2.2	0.4	
1935	0.3	0.2	0.2			P	1.2	0.7	0.6	0.5	0.3	0.2	
1936	0.4	P					1.6	4.2	1.4	0.3	0.3	0.3	
No Items	16	9	1			1	12	17	17	18	18	18	
Mean	0.66	0.62	0.20			1.00	3.02	5.23	2.16	2.29	1.29	0.74	17.35x



# R - 20A Discharge of La Jara Creek near Sanford, Colorado

Drainage Area 235A Square Miles														Altitude 7,525A Feet	
APPL. IN															
Unit: Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
	1936								P	1,100	305	1,320	907		
	1937	1,990	2,170												
No Items		1	1							1	1	1	1		
Mean	1,990.0	2,170.0								1,100.0	305.0	1,320.0	987.0	7,952.0x	

# R - 20B Discharge of La Jara Creek, at Mouth

Drainage Area 265A Square Miles														Altitude 7,520A Feet	
Unit: 1,000 Acre-Feet															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	ANNUAL IN
1925	1.3*	1.9*	2.3*	1.6*	2.3*	3.4*	2.8	1.5	0.7	1.6	3.6	2.5	25.5	94.5	
1926	1.7	2.9	2.5*	1.8E	1.9*	4.3*	4.6	4.3	3.1	1.9	0.8	1.1	30.9	114.5	
1927	0.7	1.6	1.5*	2.0*	2.2*	2.8*	1.0*	1.0	2.7	2.3	3.9	4.4	26.1	96.7	
1928	5.1	3.6	3.2*	2.3*	2.4*	3.7*	2.0	3.8	1.2	0.2	0.3	0.6	28.4	105.3	
1929	0.3	1.1	1.7*	1.6*	1.3*	3.7*	3.1	4.2	2.0	2.1	4.7	1.0	30.8	114.2	
1930	2.5*	4.2E	4.0*	2.5*	3.3E	3.6	2.6	1.0	0.3	0.8	1.9	0.6	27.5	101.9	
1931	2.3*	2.1E	2.1*	1.5*	1.9*	3.1*	0.9*	0.2	0	0	0	0	14.1	52.3	
1932	1.3						2.6	5.6	4.2	3.9	1.2	1.1			
No Items	8	7	7	7	7	7	8	8	8	8	8	8			
Mean	1.97	2.49	2.47	1.90	2.19	3.54	2.45	2.70	1.78	1.60	2.05	1.91	726.96		
Annual	7.04	9.23	9.15	7.04	8.12	13.12	9.08	10.01	8.60	5.93	7.60	7.03	100.00		





# R - 21 Discharge of Trinchera Creek near Fort Garland, Colorado

Unit: 1,000 Acre-Feet		Drainage Area 45 Square Miles										Altitude 8,490 Feet	
YEAR	QRT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	Feet
1923	1.3	1.1				0.6*		2.7*	3.0*	1.5*	1.4*	1.3*	
1924	0.7*	0.5*						7.3	7.6	2.5	0.2	0.7	
1925	0.6*					1.6*		2.3	1.6	1.0	0.3	0.3	
1926	1.0	1.0*				P		8.6	9.1	2.9	1.3	0.7	
1927	1.0	0.6*				1.0		3.8	3.4	1.7	1.0	0.8	
1928	0.1	0.7*			0.2E	0.6*		5.6	5.8	1.9	1.2	0.9	
1929	0.2	0.7*				0.2*		3.2	3.0	1.1	1.2	1.0	19.8 112.7
1930	0.9	0.6				1.7		3.1	3.5	1.6	2.1	1.2	
1931	0.3	0.7*			0.4*	0.8		2.4	3.2	1.4	0.7	0.7	
1932	1.0	0.7*				1.9*		6.1*	4.8*	2.3*	1.2	0.3	
1933	0.7	P			P	0.7		3.0	7.6	2.4	1.0	0.6	
1934	0.9	0.5				1.4		2.4	1.4	0.3	0.1	0.2	
1935	0.5				0.5	0.8		2.7	7.7	2.4	1.2	0.3	
1936	0.3					1.3		3.5	2.3	1.1	2.0	1.0	
1937	1.1	0.8				2.2		8.8	5.6	2.2	1.0	0.8	
1938	0.7	P				1.7		3.2	7.2	2.4	1.3	1.2	
1939	1.2	1.2	1	1	1	1.4		1.0	1.0	1.6	1.3	1.6	
1940	0.3	0.4	0.43	0.30	0.20	0.50		4.57	4.04	1.62	1.20	0.54	
% Mean	4.73	4.10	3.26	1.71	1.14	2.84	7.23	26.01	27.25	10.30	7.17	4.14	100.00



R - 22 Discharge of Trinchera Creek above Mountain Home Reservoir, Colorado

Drainage Area (1 Square Miles)									
Year	1923	1924	1925	1926	1927	1928	1929	1930	1931
1923	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1924	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1925	0.1	0.3*	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1926	0.4	0.3*	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1927	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
1928	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1929	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
1930	0.9	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0
1931	0.8	0.5*	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1932	0.8	0.5*	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1933	0.6	P	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1934	0.6	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1935	0.5		0.4	0.3	0.2	0.1	0.0	0.0	0.0
1936	0.9	P	0.4	0.3	0.2	0.1	0.0	0.0	0.0
1937	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	0.0
1938	0.6	P	0.4	0.3	0.2	0.1	0.0	0.0	0.0
1939	0.5	1	0.4	0.3	0.2	0.1	0.0	0.0	0.0
mean	0.64	0.50	0.41	0.31	0.21	0.11	0.01	0.01	0.01





R- 23 Discharge of Trinchera Creek below Smith Reservoir, Colorado

Unit: Acre-Feet														
Drainage Area 396 Square Miles														
Altitude 7,700 Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1929	123*	119*					916	1,640	744	569	433	143		
1930	61						1,920	236	666	640	274	60		
1931	71	60	61E	61E	56E	61E	1,670	3,230	1,020	769	173	61	7,293	55.7
1932	61*	60*				1,640*	6,720*	7,320	726	1,090	664	411		
1933	101	82				P	1,090	4,030	1,950	466	466	109		
1934	61	60*	61E	61E	222	1,620	2,590	117	293	136	141	60	5,457	43.9
1935	61	60	61	31	23	33	175	482	1,560	319	662	127	3,599	29.0
1936	99	119E	123E	117E	141	556	643	584	480	275	915	748	4,800	38.7
1937	1,150	2,170				P	12,740	17,480	4,980	1,380	246	29		
1938	50	2	6E	6E	6E	1,310	5,320	13,350	2,050	203	123	47	22,483	181.1
No Items	10	9	5	5	5	6	10	10	10	10	10	10		
Grand Total	1,150	104.3	62.4	55.2	90.6	870.0	3,378.4	4,846.9	1,447.4	588.0	410.2	179.5	12,416.7	
Percent	1.48	2.47	0.50	0.44	0.73	1.01	27.21	39.03	11.66	4.74	3.30	1.45	100.00	

R - 23A Discharge of Trinchera Creek, at Mouth

Drainage Area 2804 Square Miles															Altitude 7,220 Feet	
ANNUAL IN.																
Unit: Acre-Feet	YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
	1936								173	14	10	419	619			
	1937	1,150	2,000						1	1	1	1	1			
No Items	1	1							1	1	1	1	1			
Grand Total	1,150	2,000							173	14	10	419	619	4,416.0		



# R - 24 Discharge of Sangre de Cristo Creek, near Ft. Garland, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 157 Square Miles      Altitude 6,000 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
1916						P	2.9*	5.6*	1.5*	0.6*	0.5*	0.2*		
1917	P													
1923								3.5*	1.0*	0.0*	0.9*	0.9*		
1924	1.4	1.2					5.2*	18.1	5.5	1.4	0.5	0.2		
1925	0.9	0.9					2.0*	1.7	0.3	0.3	0.3	0.1		
1926	0.2	0.3					4.0*	13.0	5.2	1.7	0.4	0.2		
1927	0.4						3.2	3.3	1.2	0.8	0.5	0.4		
1928	0.6						2.0	11.5	4.1	1.0	0.6	0.1		
1929	0.4	0.5*					2.3	4.9	1.6	0.5	0.7	0.5		
1930	0.7*						3.6*	2.6	1.1*	0.7*	0.5*	0.2*		
1932	0.5	0.4*					6.5*	2.4	2.6	0.9	0.5	0.1		
1933	0.6	0.4*					1.4*	6.9	4.6	1.2	0.5	0.5		
1934	0.5	0.4*					2.7	1.5	0.3	0.1	0.0*	0.0		
1935	0.0*						0.9	4.9	2.0	0.6	0.7	0.2		
1936	0.7							2.1	0.0	0.4	1.6	0.4		
1937	1.2	1.5					11.3	15.2	4.3	1.3	0.4	0.3		
1938	0.5	P					5.6	13.4	4.0	1.2	0.3	0.5		
1939	1.4	8					1.4	16	16	16	16	16		
mean	0.61	0.70					4.25	7.60	2.57	0.46	0.55	0.33	17.15*	



R - 25 Discharge of Sangre de Cristo Creek, above Smith Reservoir, Colorado

Unit: 1,000 acre-feet												
Drainage Area 231 Square Miles												
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1927								3.4	1.6	1.3	2.9	1.2
1930	0.2						2.0*	1.1*	0.0	1.0*	0.6*	0.1
1931	0.4	0.2*				P	2.3	4.4	1.0	0.3	0.3	0.8
1932	1.1	0.9*				2.1*	7.0*	8.7	2.0	1.3	0.5	0.3
1933	0.4	0.4*				P	1.2	4.4	2.7	0.4	0.4	0.6
1934	0.2	0.5*					2.6	0.5	0.3	0.2	0.2	0.2
1936												
1937	0.3	4				1	0.0	2.3	0.5	0.2	3.9	1.2
1938	0.50	0.50				2.20	2.02	5.54	1.01	0.09	1.10	0.01

## R - 25A Discharge of Ute Creek, at Upper Station, Colorado

[illegible]





# R- 26 Discharge of Ute Creek near Ft. Garland, Colorado

Unit: 1,000 acre-feet      Drainage Area 32 Square Miles      Altitude 6,600 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
1916						P	1.2*	3.5*	3.0*	1.9*	1.9*	0.9*		ANNUAL
1917	P													ANNUAL
1923								2.3*	3.4*	1.8*	2.1*	1.6*		
1924	2.1	1.5					3.3*	6.6	5.2	2.2	0.3	0.5		
1925	0.5	0.4					1.2	1.4	1.0	1.4	1.2	0.7		
1926	0.6	0.7*					2.0	4.7	4.9	1.7	0.6	0.4		
1927	0.3	0.3*					1.5	3.7	2.9	2.8	2.3	1.5		
1928	1.0	0.7					1.0	4.2	3.5	1.6	1.7	0.6		
1929	0.5	0.6					1.3	4.5	4.0	3.0	3.4	2.6		
1930	1.5	1.0					2.2	4.1	2.6	2.4	2.0	0.4		
1931	0.7	0.5*					1.4	4.1	4.6	1.6	0.6	1.5		
1932	1.1	0.8*				0.7*	4.0	6.3	4.3	4.0	1.9	0.3		
1933	0.7					P	0.8	2.1	4.1	1.4	1.7	1.2		
1934	0.0	0.5					2.0	2.4	0.7	0.5	0.5	0.7		
1935	0.4					P	0.6	1.0	3.7	2.6	1.0	0.7		
1936	0.9	P					2.4	3.4	1.9	1.9	4.0	1.4		
1937	1.2	1.0					2.4	9.6	5.6	3.2	1.1	0.8		
1938	0.5	P					2.4	5.7	6.3	2.4	0.9	1.4		
No flows	15	11				1	16	17	17	17	17	17		
Mean	0.84	0.71				0.70	1.83	4.22	3.86	2.15	1.53	1.52		

# R - 26½ Discharge of Conejos River at Platoro, Colorado

Unit: 1,000 acre-feet	Drainage Area 44.4 Square Miles													Altitude
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL
1937														ANNUAL
1938	1.2	0.8	P				8.0	38.9	35.5	10.8	1.8	0.9		
No flows	1	1				P	1	21.1	43.0	11.0	2.9	1.4		
Mean	1.10	0.80				1	2	2	2	2	2	2		
						0.00	31.00	40.25	10.30	1.31	1.19	1.19		



# R - 27 Discharge of the Conejos River near Hogote, Colorado

Unit: 1,000 Acre-Feet      Drainage Area 282 Square Miles      Altitude 8,300 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	1 YEAR
1900							22.2							
1903							P	79.4	138.0	39.7	10.6	9.3		
1904	8.5						16.8	31.3	19.0	4.7	19.4	13.9		
1905	31.7						17.4	94.7	132.5	32.5	13.1	5.2		
1906	4.4						P	82.4	P					
1907						P	28.9	52.1	109.0	93.5	26.3	12.9		
1908	6.5	4.9	4.6*			P	13.0	34.7	69.6	26.6	17.7	7.0		
1909	6.3	4.9					P	75.0	119.0	33.7	19.3	27.7		
1910	9.3	5.0	4.9	3.6E	2.8E	10.4	29.9	75.0	45.9	10.9	10.5	3.8	210.0	70.5
1911	3.7	3.5	3.7E	3.4E	2.5E	5.0*	21.6	85.5	123.0	70.1	20.5	17.1	359.8	131.1
1912	P			4.7	3.1	5.6	13.2	113.8	102.7	38.0	9.5	3.8		
1913	5.0	5.1		2.6E	2.4E	3.4E	8.9*	56.0	48.7	12.1	4.1	3.9		
1914	7.4	3.2				P	17.7	58.6	80.6	28.1	18.9	17.0		
1915	13.1	4.4	2.2E	2.3E	2.8E	3.7*	18.4	45.4	92.6	43.0	12.9	6.0	247.0	90.0
1916	5.0	3.6*	2.5E	2.4E	3.0E	5.2E	21.7*	90.4	129.0	50.2	24.0	10.8	347.8	120.7
1917	20.4	7.5*					19.4E	46.4*	138.0	76.2	15.4	5.4		
1918	3.1	2.6	1.9*	1.4E	1.8E	4.9*	12.9	56.4	89.3	30.1	9.9	7.1	243.4	81.4
1919	4.1	3.4					29.5	84.2	61.9	31.4	10.8	5.8		
1920	4.4	3.8*	3.9E			5.1*	9.4	115.0	188.0	67.0	20.7	6.4		
1921	5.2	4.0*	3.2E	2.8*	3.2*	7.1	10.9	65.3	106.0	31.3	19.3	6.6	262.9	95.8
1922	3.9	3.1	2.5*				11.4	104.0	126.0	32.5	11.3	3.6		
1923	2.9	3.7	3.4E	3.0*	2.2E	4.9*	22.0	121.0	127.0	42.1	23.4	19.7	315.4	138.8
1924	17.5	6.2	5.5*	4.4*	3.7*	4.9E	34.0*	108.0	81.5	27.2	8.6	3.2	212.5	110.2





# R - 27 Discharge of the Conejos River near Mogote, Colorado (Continued.)

Unit: 1,000 Acre-Feet														
Drainage Area 282 Square Miles														
Altitude 8,200 Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% FAN
1925	3.9	3.5	3.2*	3.0*	3.0*	5.4*	29.2	71.9	54.7	20.7	14.9	8.5	221.9	80.9
1926	11.2	6.2	3.9*	3.8*	3.1*	4.4*	18.9*	76.9	92.8	27.1	9.2	2.7	260.8	95.0
1927	3.8	3.0*	3.0*	2.7*	1.9*	3.9*	24.2	95.9	99.4	43.5	16.6	26.8	326.7	119.0
1928	14.6	6.4	4.4*	3.4*	2.4*	4.0*	13.7	67.6	61.9	15.6	8.6	5.0	209.6	76.4
1929	3.5	3.0*	3.0*	2.8*	2.7*	5.5*	23.3	101.0	97.0	30.6	32.8	27.1	332.3	121.0
1930	10.1	4.5	2.5*	2.2*	2.0	3.4*	33.3	54.0	63.7	20.5	14.0	3.4	214.4	73.1
1931	3.8	1.5*	2.2*	1.8*	1.8*	3.1*	11.7*	38.1	40.8	9.6	9.2	12.7	136.6	49.8
1932	15.2	4.5*	4.3*	3.2*	3.1*	5.1*	30.1	108.0	118.0	54.6	18.6	6.5	369.0	134.5
1933	4.4	2.9*	2.6*	2.8*	2.2*	4.4*	9.7	44.4	93.4	27.2	11.3	8.3	213.6	77.8
1934	7.1	3.2	2.5*	2.2*	2.5*	5.4*	30.5	36.1	7.0	4.3	4.0	4.4	169.9	48.3
1935	5.3	2.6	1.9	1.9	2.4	4.3	15.1	45.3	45.4	56.6	17.9	6.0	255.2	127.7
1936	5.8	3.6	2.4	2.1	2.5	3.9	47.6	87.9	34.3	8.8	13.3	9.9	222.1	80.9
1937	9.4	7.5	4.1	3.2	2.7	5.0	39.1	126.2	84.1	27.4	7.4	4.6	320.7	116.9
1938	5.4	3.3	2.2*	2.7*	2.2*	4.9	40.3	61.0	117.9	27.6	10.1	11.7	314.2	114.5
Notations	33	30	25	24	24	25	33	36	35	37	35	35		
mean	5.24	4.27	3.21	2.65	2.62	2.20	21.33	75.24	92.47	34.16	17.05	5.37	274.1	
% mean														
ANNUAL	2.77	1.77	1.17	1.04	0.97	2.03	5.27	22.13	13.59	12.45	5.33	3.51	170.00	



# R - 28 Discharge of the Conejos River near Mouth, Colorado

Unit: 1,000 Acre-Feet

Drainage Area 687 Square Miles

Altitude 7,496 Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANAL. IN
1921							P	3.5	40.9	72.0	3.7	6.5	4.2	
1922	3.1	3.6	3.7*				5.4*	6.4	110.9	98.8	7.7	0.9	1.6	
1923	1.6	2.2	3.6*	3.7E	4.4	3.7	3.2	7.7	109.0	101.0	8.9	11.7	14.0	271.5 145.7
1924	16.1	9.5	6.0	6.5	7.6	5.7	5.2	70.2	162.0	35.5	1.2	1.0	1.2	325.3 174.6
1925	2.9	3.5	3.9	3.6	5.4	5.7	5.8	15.9	27.2	6.4	5.7	6.3	3.4	25.2 44.7
1926	7.3	6.6	4.6	4.6	5.0	5.8	5.8	19.2	84.2	53.3	3.7	1.2	1.4	196.7 105.7
1927	1.4	2.0	3.1	3.6	3.8	3.4	3.4	6.4	84.8	74.4	21.0	2.9	25.3	232.1 124.6
1928	14.6	6.4	5.0	5.0	5.4	6.0	6.0	6.0	52.3	26.6	0.2	0.3	0.7	128.5 69.0
1929	1.1	2.6	3.4	3.3	4.5	5.1	5.1	6.0	94.7	45.7	1.4	16.3	10.2	205.6 110.4
1930	2.5	6.2	4.8	3.4	4.7	5.0	5.0	33.3	25.5	27.1	2.9	4.2	1.1	124.1 66.6
1931	2.0	3.3	3.6	3.5	5.3	6.8	6.8	4.0	3.6	0.4	0.1	0.3	1.4	34.3 10.4
1932	2.7	2.7*	3.4*	3.6*	6.7*	8.6	8.6	11.8	123.0	101.0	36.9	0.7	2.0	305.1 161.6
1933	3.6	4.2	3.8*	3.9*	4.2*	4.8*	4.8*	1.2	24.8	58.8	1.6	0.5	1.6	113.0 60.7
1934	2.5	3.7	4.0	4.6	4.3	5.4	5.4	1.2	0.3	0.1	3.1	0.3	0.3	24.5 12.2
1935	1.1	3.3	2.5	3.0	2.7	2.3	2.3	0.6	42.7	110.1	26.4	1.7	2.1	197.6 106.2
1936	3.3	3.7	4.0	4.0	4.6	3.8	3.8	54.3	65.2	4.9	0.2	2.8	2.4	152.2 82.2
1937	5.4	7.1	5.4	4.6	6.2	8.0	8.0	68.6	146.6	51.0	10.5	0.5	0.8	316.7 170.3
1938	2.3	2.6	3.5	3.6	3.8	4.7	4.7	44.5	41.3	60.1	6.2	0.7	3.4	233.7 127.1
25-Year Avg.	17	17	17	16	16	17	17	16	16	16	16	16	16	
Annual	4.32	4.19	4.04	4.07	4.71	5.14	5.14	19.99	71.32	51.92	7.50	7.37	5.24	165.71
Annual	2.32	2.25	2.17	2.16	2.63	2.67	2.67	10.73	36.26	17.67	4.50	4.41	2.31	100.00



# R - 29 Discharge of San Antonio River near Ortiz, Colorado

Drainage Area 110 Square Miles												Altitude 8,200 Feet		
Unit. Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN
1915				0	26	215	4540	4960	1540	510	36	298		
1916	295													
1919							11900E	10600	1140	1740	299	551		
1920	360					1790*	12400	34000*	5000	648	842*	416*		
1921	452*													
1925	135*	218*				P	5130*	2133*	619*	176*	252*	76*		
1926	99	93					8150	14400	940	191	183	61		
1927	89	155*					7740	14000	1710	613	244	666		
1928	448					P	4220	8240	619	299	413	174		
1929	133	208*					10000*	12500	827	615	676	76		
1930	390						P	6580	601	701	494	60		
1931	157							5000	59	42	56	12		
1932							1610*	18800	1930	390	250	141		
1933	296*	P					3570*	9900*	2670	445	63	77		
1934	172	119*					2020	252	24	6	111	89		
1935	61													
1936	180	71					4790	13280	1950	307	305	184		
1937	467	675				P	15190	4010	306	374	941	152		
1938	260	F					26180	16550	1200	169	329	209		
1939							12360	10440	981	159	148	202		
No. Items	16	7		1	1	2	15	17	17	17	17	17		
Mean	247.6	275.7		0.0	26.0	1002.5	8552.7	10555.1	1401.2	441.4	51.2	210.1	73415.34	





# R-30 - Discharge of San Antonio River at Mouth, Colorado

Drainage Area 348 Square Miles														Altitude 7,700 Feet	
Unit: Acre-Feet														ANNUAL MEAN	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1923							6130	45900	19500	941	1280	3690			
1924	3700	2080	1540*	1350*	2300*	5370	42300	73800	9520	579	32	0	140371	106.8	
1925	52	327					12500	15600	3180	593	1810	720			
1926	2280	1260	738*	738*	1110*	1970*	16600	46200	16500	1330	170	12	89200	110.5	
1927	144	333*	246*	307*	389*	369*	6960	52200	26200	5390	422	4590	97490	129.5	
1928	2590	1940	1540*	1410*	1150*	1480*	5470	30100	8570	323	208	28	54509	72.4	
1929	55	119E	61*	31*	167*	474*	7330	47400	10200	1860	4060	3570	75877	100.0	
1930	1900	1490	934*	553*	1940*	1350*	24000	22900	9880	1360	1510	79	67916	90.3	
1931	303	298*	61*	61*	555*	1480*	3290	7360	1230	143	20	0	15041	20.0	
1932	14*	60*	615*	615*	1440*	2150*	10900	62700*	50000	6670	188	76	117428	156.0	
1933	363	547	246*	184E	222*	922*	1170	23700	10500	563	63	34	46814	65.2	
1934	14*	179*	134*	2563	333*	367*	2260	2090	127	0	41	0	5172	7.7	
1935	0	0	6	12	56	63	2580	36530	33270	4090	631	355	77593	103.1	
1936	512	357E	278E	184E	575E	952*	30870	24050	2170	13	800	161	61032	81.1	
1937	1120	1840	793	835*	1060*	2030	45470	70460	14890	1740	5	0	140047	184.6	
1938	3	14	14	31E	217	223	26120	49270	16870	1670	190	89	94031	125.5	

No. Days	15	15	14	14	14	14	16	16	16	16	16	16	16	16
Mean	44.4	72.4	521.2	468.4	822.4	1224.3	1550.0	3155.1	11571.0	1270.9	715.7	871.5	27808.3	
% Mean														
Annual	1.14	0.96	0.69	0.62	1.09	1.65	20.26	50.70	17.12	2.40	0.45	1.09	180.00	



# R-31 - Discharge of Los Pinos Creek near Ortiz, Colorado

Unit: 1,000 Acre-Feet													Drainage Area 167 square miles		Altitude 8,100 Feet	
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL IN		
1915				0.8E	0.9E	1.5E	14.0*	30.5	29.6	6.3	2.7	1.2				
1916	1.1	1.2*					15.2*	58.2	37.4*	9.2*	5.3	1.8				
1917	6.5	P						32.5*	44.7	12.1*	4.2	1.2				
1918	0.8	0.8*				1.5*	9.1	34.4	19.3	5.1	1.4	1.1				
1919	1.0	1.2					21.5*	53.1	17.0	7.8	4.6	1.9				
1920	1.3	1.1				2.0*	8.4	76.2	45.8	9.5	2.7	0.8				
1921	0.8	0.9*														
1925	1.5	1.2					20.8	26.4	9.5	3.1	4.4	1.8				
1926	3.3	1.8*					16.0*	46.1	22.4	4.3	1.7	0.9				
1927	1.0	1.1*					12.0	56.9	26.4	7.0*	2.6	6.0				
1928	3.7	2.1E	1.1E	0.9E	0.7E	1.8*	9.3	38.6	15.6	2.8	1.5	1.0	71.7	75.2		
1929	0.9	1.0*					15.9	48.4	17.0	4.7	6.9	5.2				
1930	3.2	2.3				2.4	23.0	36.6	16.5	3.1*	3.0*	1.2*				
1931	1.4					P	6.1	17.6	7.3	2.3	1.1	1.4				
1932	2.2	0.9*				4.3*	18.4	67.0	38.0	13.1	2.6	1.2				
1933	1.5						6.0	30.8	26.3	5.1	2.0	1.8				
1934	1.6	1.3					14.8	7.0	1.6	0.8	0.2	1.1				
1935	0.9	0.8				P	9.7	40.3	42.3	8.0	3.4	1.7				
1936	1.4	P				P	36.3	32.4	8.4	2.3	2.9	2.0				
1937	3.3	3.0					34.7	77.5	20.5	4.9	1.4	1.0				
1938	1.3	P					29.5	47.0	23.1	4.9	1.6	2.1				
No. Items	20	15	1	2	2	6	19	20	20	20	20	20				
Mean	1.94	1.33	1.10	0.85	0.00	2.25	17.14	42.98	23.33	5.82	2.64	1.82	#102.05			
% Mean																
Annual	1.90	1.35	1.08	0.83	0.78	2.21	16.80	42.12	22.56	5.70	2.59	1.78	100.00			





# R-31A - Discharge of Culebra River near Chama, New Mexico

Unit: 1,000 Acre-Feet										Drainage Area 28A Square Miles				Altitude 3,400A Feet	
AUGUST 1926															
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN	
1924							4.8*	13.7	12.7	4.3	1.8	1.2			
1925	1.0	0.8					3.0	4.7	2.9	2.9	4.1	2.7			
1926	1.8	1.6					P	13.7	15.4	6.7	2.2	0.9			
No. Items	2	2					2	3	3	3	3	3			
Mean	1.40	1.20					3.90	10.70	10.33	4.53	2.23	1.60	#36.69x		

# R-32 - Discharge of Culebra River near San Luis, Colorado

Drainage Area 220 Square Miles										Altitude 8,000 Feet				
Unit: 1,000 Acre-Feet	ANNUAL IN													
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1909								8.7	11.5	7.6	7.9	8.5		
1910	5.0	3.0	1.8	2.5*	2.1*	5.3*	8.1*	13.6*	6.0*	1.7*	2.5*	2.1*	53.7	113.3
1911	2.3*	2.1*	1.8	2.3	1.9	2.4	2.3	4.7	3.5	4.6	3.6	2.0	33.5	70.7
1912	4.4	2.5	3.0	2.6	2.7	2.3	2.7	10.0	11.6	9.6	4.0	2.3	58.7	121.8
1913	2.7	2.4	2.5	2.2	2.0	2.5	2.4	8.6	13.3	9.1	4.2	1.3	42.3	101.3
1914	2.5	2.4	1.8	1.7	1.6	2.2	1.7	4.2	15.8	8.8	4.6	2.5	49.8	105.1
1915	2.9	2.9	2.6	2.5	2.3	2.3	2.6	8.7	13.9	14.2	5.0	2.4	61.5	140.6
1916	2.5	2.6	2.6	2.4	2.5*	3.4*	3.3*	10.6*	13.4*	7.5*	5.1*	2.8*	63.7	134.4
1917	2.6*	2.2*	2.2*	2.2*	2.0*	2.4*	2.1*	3.5*	20.4*	13.8*	7.5*	2.2*	45.1	137.1
1918	2.3*	2.2*	2.1*	2.1*	1.9*	2.2*	1.9*	9.0*	7.1*	11.3*	5.6*	3.4*	51.1	107.9



# R-32 - Discharge of Culebra River near San Luis, Colorado (Continued)

Drainage Area 220 Square Miles													Altitude 8,000 Feet	
Unit: 1,000 Acre-Feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1919	3.0*	2.0E	2.1E				2.1*	4.5*	18.8*	11.1*	7.9*	P		
1927														
1928	1.8	1.4E	1.4E	1.4E	1.3E	1.3	1.2	6.6	8.9	8.1	4.0*	2.4	44.4	93.7
1929	1.4	1.3*	1.2E	1.1E	1.1E	1.2*	0.7	2.1	12.1	5.5	3.4	1.6	32.8	69.2
1930	1.8	2.1	1.5*	1.2E	1.1*	1.3	1.2	5.4	11.3	6.0	5.5	2.7	44.1	93.1
1931	1.8	1.6*	1.5E	1.5E	1.4E	1.5E	1.5E	3.4*	11.7	6.2	3.0	1.5	36.8	77.7
1932	1.6	1.5*	1.5E	1.5E	1.4E	1.4*	1.4	2.4	8.4	7.6	5.5	2.2	36.4	76.8
1933	1.8	1.7	1.7	1.4E	1.1E	1.2E	1.1	3.1	10.8	9.4	6.2	2.4	41.9	88.4
1934	1.7	1.7	1.5	1.5	1.2	1.1	1.1	6.8	6.2	5.8	2.8	1.2	32.6	68.9
1935	1.4	1.1	1.2E	1.2E	0.8E	0.9E	0.6	1.6	9.1	7.3	6.4	1.3	33.6	70.3
1936	2.0	2.0	1.7	1.6	1.2	1.6	1.4	4.4	11.4	5.8	3.0	1.8	37.9	80.0
1937	1.4	1.8	1.4	1.5E	1.4*	1.6	1.7	7.3	9.0	11.4	6.9	1.9	47.3	99.8
1938	1.9	1.6	1.6	1.6	1.4	1.7	1.7	3.0	13.6	12.1	7.4	2.1	49.7	100.0
1939	2.1	2.1	1.8	2.0	2.0	2.0	2.4	2.3	2.3	2.3	2.3	2.2		
1940	2.2	2.00	1.4	1.00	1.62	1.99	2.50	6.10	11.73	5.53	5.53	5.53	44.38	
% Mean														
Annual	4.20	4.22	3.03	3.80	3.42	4.20	4.22	12.36	24.56	15.00	10.12	5.00	100.00	

# R-32A - Discharge of Culebra River at Mouth, Colorado

Drainage Area 450A Square Miles													Altitude 7,510A Feet	
Unit: Acre-feet														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1936														
1937	0	0	0					0	0	10	96	0		
No. Items	1	1	1					1	1	1	1	1		
Mean	0.0	0.0	0.0					0.0	0.0	10.0	96.0	0.0	4106.08	



R-32B - Discharge of San Francisco Creek near San Luis, Colorado

Unit: Acre-Feet		Drainage Area 13A Square Miles										Altitude 2,400A Feet		
Avalon, In.														
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN
1916				184E	161E	243*	552*	1870*	P					
No. Items	1	1	1	1	1	1	1	1						
Mean	184.0	161.0	243.0	552.0	1870.0								#3006.0x	

R-32C - Discharge of Costilla Creek at Mouth near Jarosa, Colorado

Unit: 1,000 Acre-Feet										Drainage Area 75A Square Miles				Altitude 7,510A Feet		
YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	% MEAN		
1912							P	11.4	10.2	P						
1913								0	0	0	0	0				
1936								0	0	0	0	0				
1937	0															
No. items	1							3	3	2	2	2				
Mean	0							3.80	3.40	0	0	0		#7.20x		





# R-33A - Discharge of Chama River near Chama, New Mexico

Unit: 1,000 Acre-Feet

Drainage Area 800A Square Miles

Altitude 6,600A Feet

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL	ANNUAL % MEAN
1913	1.8	1.5	0.9	0.8E	0.6E	1.1	13.9	25.5	12.4	3.0	1.6	1.4	64.5	54.9
1914	2.1	1.6	1.2	0.7	0.9	3.8	13.7	47.7	23.0	6.7	3.9	4.0	114.3	97.3
1915	7.0	3.2	1.8	1.5*	1.2*	2.8*	22.6	58.2	35.0	10.9	3.4	2.0	150.4	111.0
1916	1.7	P		P			29.2	62.1	34.3	11.5	5.5	3.2		
1917	9.6	P					P	P	F					
Notes	5	3	3	3	3	3	4	4	4	4	4	4		
Mean	4.44	2.10	1.30	1.00	0.90	2.57	21.10	43.38	27.58	8.02	3.52	2.22	# 117.44	
Annual	2.79	1.79	1.11	0.85	0.77	2.12	17.97	36.04	22.46	6.83	2.06	2.25	100.00	

Note May 26th 1914 Station moved 2 miles down stream; intervening tributaries unimportant.  
Discharges from USGS publications.

## Miscellaneous Discharges in Second-Feet

### R-15 - North Crestone Creek at Crestone.

1915: April 13th, 2.3; 17th, 5.0; 18th, 5.0; 20th, 4.4; 21st, 5.5; 22nd, 6.7; 23rd, 6.7; 24th, 6.7; 27th, 14.0; 30th, 27.0 - May 1st, 17.0; 2nd, 14.0; 4th, 3.0; 12th, 23.0; 14th, 52.0; 23rd, 22.0; 26th, 10.0 - June 5th, 28.0; 12th, 101.0 - July 6th, 66.0; 13th, 29.0; 27th, 211.0; 31st, 25.0 - Aug. 7th, 16.0; 14th, 12.4 - Sept. 6th, 2.1; 7th, 2.2; 23rd, 4.5 - Oct. 2nd, 3.3; 5th, 2.7; 9th, 2.0; 11th, 2.0; 15th, 2.0; 16th, 2.7; 18th, 2.8; 23rd, 3.6; 25th, 3.3; 26th, 2.7; 28th, 3.1; 30th, 3.3 - Nov. 5th, 2.3; 8th, 3.2.

### R-15A South Crestone Creek near Crestone.

1915: June 24th, 18.0; 30th, 16.0 - July 3rd, 10.0; 6th, 13.0; 7th, 13.0; 13th, 11.0; 14th, 10.0; 16th, 11.0; 17th, 10.0; 20th, 4.5; 22nd, 0.7; 24th, 9.4; 27th, 114.0; 29th, 50.0; 30th, 15.0; 31st, 7.9 - Aug. 2nd, 5.9; 3rd, 6.1; 4th, 5.2; 5th, 4.3; 6th, 4.2; 7th, 4.1; 10th, 6.0; 11th, 6.0; 12th, 5.6; 13th, 6.0; 14th, 5.5; 15th, 4.5; 17th, 4.5; 18th, 4.6; 19th, 4.9; 21st, 4.6; 27th, 2.3 - Sept. 3rd, 1.9; 7th, 2.1; 10th, 1.8; 11th, 1.6; 13th, 1.6; 14th, 1.6; 16th, 1.5; 17th, 1.5; 18th, 1.1; 20th, 1.4; 22nd, 1.3; 23rd, 1.3; 24th, 1.3; 29th, 1.5 - Oct. 3rd, 1.3; 5th, 1.4; 7th, 1.1; 8th, 1.2; 12th, 1.1; 13th, 1.2; 14th, 0.9; 16th, 0.9; 18th, 1.2; 20th, 0.9; 21st, 0.9; 22nd, 0.8; 23th, 0.8; 24th, 0.8; 25th, 0.8; 26th, 0.8; 27th, 0.8 - Nov. 1st, 0.6; 4th, 0.6; 6th, 0.6; 8th, 0.6; 10th, 0.6.



# Miscellaneous Discharges in Second-Feet

R-15B

Willow Creek near Crestone.

1915:

May 22nd, 2.7 - June 26th, 43.0 - July 1st, 26.0; 3rd, 27.0; 6th, 27.0; 7th, 25.0; 13th, 25.0; 16th, 30.0; 17th, 25.0; 20th, 23.0; 22nd, 23.0; 24th, 27.0; 27th, 134.0; 28th, 45.0; 30th, 30.0; 31st, 25.0 - Aug. 2nd, 16.0; 3rd, 20.0; 4th, 16.0; 5th, 13.0; 6th, 12.0; 7th, 20.0; 10th, 19.0; 11th, 18.0; 12th, 17.0; 13th, 20.0; 14th, 14.0; 16th, 17.0; 17th, 15.0; 18th, 16.0; 19th, 17.0; 21st, 15.0; 23rd, 15.0; 24th, 11.0; 27th, 8.5; 28th, 4.3 - Sept. 1st, 4.3; 2nd, 4.4; 4th, 5.2; 7th, 4.5; 9th, 3.0; 10th, 3.3; 11th, 3.2; 13th, 3.1; 14th, 2.9; 15th, 2.8; 16th, 2.8; 17th, 2.7; 18th, 2.7; 20th, 2.7; 21st, 2.7; 22nd, 2.7; 23rd, 2.7; 24th, 2.7; 25th, 2.5; 27th, 3.1; 28th, 3.1 - Oct. 1st, 3.0; 3rd, 2.6; 5th, 2.5; 7th, 2.2; 9th, 2.3; 12th, 2.1; 13th, 2.1; 14th, 1.9; 16th, 1.3; 18th, 1.8; 20th, 1.8; 22nd, 1.8; 25th, 1.6; 26th, 1.5; 28th, 1.5 - Nov. 1st, 1.3; 4th, 1.2; 6th, 1.2; 8th, 1.3; 10th, 1.3.

R-15C -

Spanish Creek near Crestone.

1915:

June 18th, 17.0; 25th, 26.0 - July 6th, 16.0; 13th, 7.4; 20th, 10.0; 27th, 53.0 - Aug. 2nd, 3.4; 11th, 3.8; 17th, 3.2; 24th, 2.5 - Sept. 1st, 0.6; 3rd, 0.8; 4th, 0.7; 6th, 0.3; 7th, 0.9; 10th, 0.6; 14th, 0.6; 15th, 0.5; 21st, 0.3; 22nd, 0.2 - Oct. 6th, 0.6; 13th, 0.5; 27th, 0.2; 30th, 0.2 - Nov. 3rd, 0.0.

R-15D

Cottonwood Creek near Crestone.

1915:

May 11th, 2.5; 15th, 12.4; 22nd, 7.4; 24th, 9.2; 29th, 6.1 - June 4th, 14.0; 5th, 10.0; 10th, 47.0; 26th, 46.0 - July 3rd, 11.0; 17th, 26.0; 24th, 3.3; 29th, 36.0; 30th, 31.0; 31st, 35.0 - Aug. 2nd, 24.0; 3rd, 8.0; 4th, 8.4; 5th, 7.4; 6th, 7.3; 7th, 6.0; 10th, 6.7; 11th, 7.2; 12th, 6.2; 13th, 6.3; 14th, 6.0; 17th, 6.0; 18th, 5.0; 19th, 4.0; 21st, 3.6; 24th, 3.2; 25th, 0.0.

R-15E

Deadman Creek near Crestone.

1915:

June 26th, 52.0 - July 16th, 22.0; 23rd, 19.0; 30th, 19.0; 4th, 15.0; 11th, 12.0; 13th, 12.0; 15th, 10.0; 20th, 8.5; 27th, 8.4 - Sept. 8th, 3.2; 9th, 3.3; 10th, 2.3; 15th, 1.5; 22nd, 2.5 - Oct. 6th, 3.0; 13th, 2.7; 21st, 2.5; 27th, 2.0 - Nov. 3rd, 2.0.













